ONE SHILLING

The MODEL RAILWAY NEWS

VOL. 28 No. 334 OCTOBER 1952

A PERCIVAL MARSHALL PUBLICATION

SHENPHONE
Laboratory Power Units

In short supply but so vastly superior to anything else that they are well worth getting if you can.

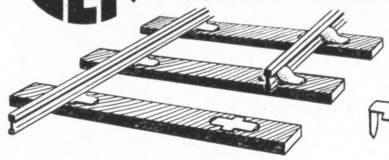
Standard models from **7 gns.** to **20 gns.**
Descriptive leaflet will be sent on receipt of **2½d.** S.A.E.

These units are as far in advance of all others as the C.7 Resistance is of its competitors.

Shenphone Electrical Products
226, High Road, Leyton, E.10. (LEY 1362)

The Key to successful Track Laying

GEM TRACK PARTS
AS USED IN OUR FAMOUS TWO-RAIL TRACK



OO GAUGE (16·5 mm. or 18 mm.)

Fibre Sleepers are ready drilled for inserting the metal Rail-Plates to which the rails are then soldered. The solder fillets and Rail-Plates form realistic representations of chairs.

Rail, B.R.M.S.B. Standard, B.H. 18 in. long,	per doz. pairs	6/9
Sleepers (black fibre) for 16.5 or 18 mm. ...	per 100	2/5½
Railplates, tinned for soldering	per 200	2/5½
Fishplates	Per 3 dozen	1/10
Holding Down Spikes	Per packet	7½
Point Sleepers (with rail plates)	Per set	4/3

Full Catalogue 7½d., post free. GEM PRODUCTS ARE OBTAINABLE FROM ALL LEADING MODEL SHOPS
OR DIRECT FROM DEPT. N102

GEORGE E. MELLOR
31a, Rhos Road, Rhos-on-Sea. N. Wales
PHONE:- COLWYN BAY 48462 *TRADE ENQUIRIES INVITED*

PRICES OF COMPONENTS FOR SCALOH COMBINED CHAIR AND SLEEPER TRACK

Sleepers (Types A, B, C, D, E), **10s.** per 100.
Nails for fixing, **2s.** per 100.
Soft Copper Ribbon (for stud contact), **3d.** per yard.
Special Ceramic Insulators (Type "A" with brass contact nail), **1s. 9d.** per packet of 50.
Ditto Type "B" with clip and pin for outside Conductor rail), **3s. 3d.** per packet of 50.
Garnet Ballast paper 2¾ in. wide, **10d.** per yard.
Rail prices are as per our catalogue.

A leaflet describing the many variations of the combined sleeper chair and dealing with the methods of laying the different types of track possible by its use is now available. Send for your copy. The first of a series of parcels embracing the components listed above is also ready. It contains sleeper chairs, flat base nickel silver rail, fishplates, fixing pins, ceramic insulators, brass contact nails, copper contact ribbon and ballast strip. This parcel makes up into 6 ft. of the most attractive *stud contact* track. Send for your parcel and become familiar with the easiest laid fine scale track. Price : Parcel No. 6, post paid, **23s.**

Send for the 5th edition of our catalogue which is now ready. Price, including postage **1s.**

ROCKET PRECISION LTD.
Makers of Scaloh "O" gauge components

18, Lonsdale Road,
London, N.W.6
Nearest station, Queens Park, Bakerloo Line

Here's a new set for Southerners—Main-line corridor (vents on large windows now included)—they will look fine behind a Merchant Navy loco !

'RATIO'

See if your Retailer has these yet

'RATIO' Coach Body Kits Nos.

C/950 All 3rd
C/952 1st & 3rd Compo
C/953 Semi-open 3rd brake
} OO Gauge 11/11 each

In case of difficulty, then write direct to

WEBSTER DEVELOPMENT CO.,
Quickley Lane, Chorleywood, Herts.
Trade Enquiries to the above.

2d. stamp please for list.

An Engineer approves "As an Engineer, I am much impressed by the fine model and my young son is of course delighted. There are a few points on which I should be glad if you could advise me, they are the following. What is the smallest radius that the engine will take? As I intend to make it a hobby for my son and build up an extensive system."
J.C.—Lancs.

Schoolboy writes: "My pals are all green with envy over my new Graham Farish Locomotive and Formo Track that Dad gave me for my birthday. I think you must have a wizard factory to produce such grand things. Please keep my Dad posted with details of new lines."—T.J.B.—Harrow.

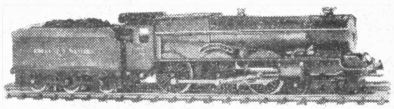
WE KNOW OUR PRODUCTS ARE GOOD— but it's grand to hear customers say so!

What a Stockbroker thinks: "During the past year I have purchased approximately £15 worth of your electric railway stock which includes quite a large layout of 'Formo' track. I think it only fair to say that I am delighted with the equipment that I have, and have 'sung its praises' at every opportunity."
E.K.—Hants

A Carter is grateful: "I am really pleased that a firm has come into the modelling world who can supply goods at reasonable prices and are therefore able to cater for people who cannot afford from £10 to £40 for 'OO' locomotives. There are a good many of us modellers who have neither the inclination nor facilities to build rolling stock, etc., and to be able to obtain Rolling Stock and Locomotives fairly cheaply is a boon."
B.Y.—London, E.10.

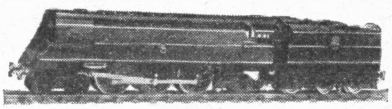
AN APOLOGY

Sorry—details of our new sensational ancillary items cannot catch this issue—but keep in touch with your dealer—they're worth it!



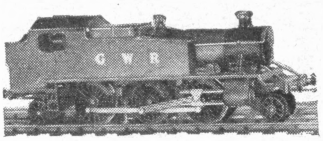
KING CLASS LOCOS

British Railways or Great Western .. £5 19 6
King George V with lamps, bell, etc. £6 4 6



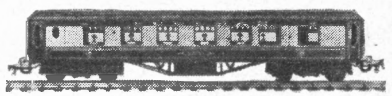
BATTLE OF BRITAIN/MERCHANT NAVY LOCOS

British Railways or Southern livery £5 9 6
With Golden Arrow insignia .. £5 14 6



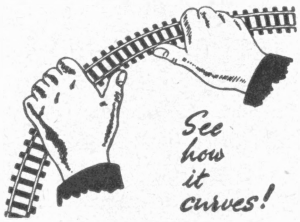
PRAIRIE TANKER LOCOS

British Railways £4 4 0
Great Western £4 9 0



PULLMAN COACHES (with authentic colours)

With tables, chairs and lamps .. £1 7 6
With Golden Arrow insignia .. £1 10 6



"FORMO" FLEXIBLE TRACK

The greatest advancement in Scale Model Track development ever! Retails at 4s. 3½d. a yard length (2-rail). Cuts Track-laying time and cost to the minimum. Points 6s. 3d. each. Points levers 2s. 6d. each.

WAGONS AND VANS

A large variety from £0 4 0

GRAHAM FARISH LTD

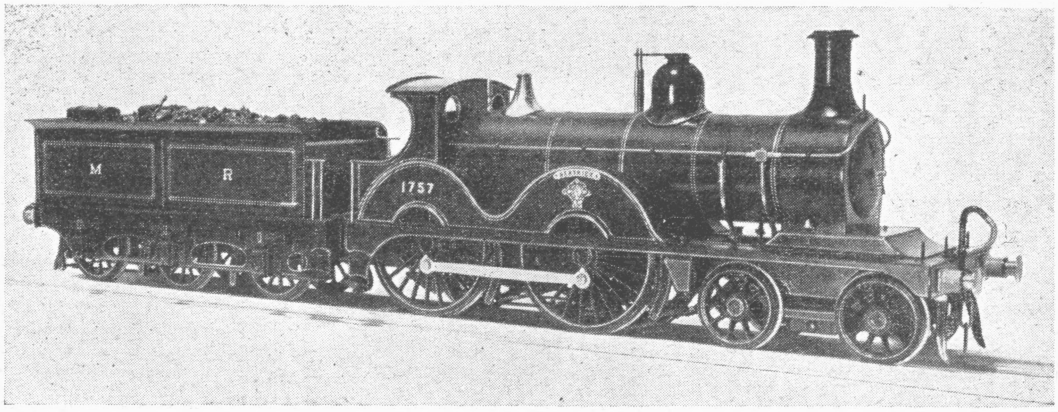
OO GAUGE *Scale Model Railroads*

BROMLEY - KENT

THE HOBBIES SHOP, 202 KEIGHLEY ROAD, BRADFORD

PHONE : 42515

(W. H. FOSTER, E. W. STUTTARD)



7 mm. Fine Scale Model Midland Railway Johnson 4-4-0 built to order

PRECISION BUILT 2 RAIL TURNOUTS 3 ft. RADIUS 16.5 mm. GAUGE NICKEL SILVER F.B. RAIL OR BULL HEAD RAIL, 12s. 9d. each. Post 6d.

WHY NOT A T.P.O. COACH FOR YOUR LINE? I CAN SUPPLY YOU WITH ONE OF THE BEAUTIFUL MODEL TRAVELLING POST OFFICES by "EXLEY" IN BOTH G.W.R. AND L.M.S.R. COLOURS. Complete with bogies. 16.5 mm. Gauge, 4 mm. Scale, £2 14s. 4d. 7 mm. Scale £4 11s. 8d. Reg. Post and Packing 2s.

ONCE TRIED, ALWAYS USED. EXLEY 2 rail bogies 16.5 mm. gauge, 9s. 9d. pair.

FOR THE HORNBY DUBLO Enthusiast, large stocks of spares, list free. EXLEY CATALOGUE, 1s. 3d.

MODEL RAILWAYS AT 25%—50% BELOW CURRENT PRICES

GAUGE "O"

Hornby Electric Sets, complete with trans/controller, bogie coaches, rails—"Royal Scot," "Flying Scotsman," L.M.S. compound, "Caerphilly Castle," "Lord Nelson," etc., **£8-£10**, 0/4/0 sets **£6/10/0**. Electric rails, **1/3**; points, **10/6**; 20 v. "Royal Scot," "Flying Scotsman," L.M.S. comp., **£5** each; "Princess Elizabeth," perfect in presentation case, **£10** (also extra mech., **£6**). Clockwork 201 tank goods sets, **45/-**; passenger sets, **50/-**; 501 loco/tender sets, **£3**; clockwork rails, **6d.**; points, **3/6**; 0/4/0 locos., **35/-**; 4/4/0 locos., **£3/10/-**; Schools 4/4/0 **£4/10/-**; "Royal Scot," **£4/10/-**; Hornby goods rolling stock, list prices **5/11, 6/6**, etc. Perfect condition **3/6** each, fair condition, **2/6**; brake vans **6/-**; No. 2 bogie coaches **17/6**; special pullmans, **25/-**; 6 v. "Royal Scot," **£4/10/-**.

Bassett-Lowke 20 volt—2 "Flying Scotsman," **£8/10/-** each, one 0/4/0 tank, perfect **£4**. **Steam**—"Enterprise," **£6/10/-**; super "Enterprise," **£8/10/-**; "Mogul," **£10**. **Clockwork**—L.M.S. compound, perfect cond., **£6**; "Royal Scot," (pre-war) **£6/10/-**; "Flying Scotsman" (as new) **£8/10/-**; "George V," **£4/10/-**; B.R. 4/4/0 (as new) **£4**. **12 v. d.c.**—B.R. Compound, **£6/10/-**; L.M.S. 0/6/0 and tender, **£6**; 2 L.M.S. "Royal Scots," latest type as new, **£14** each (list price, **£21/1/8**); "Flying Scotsman," **£8/10/-**; "George V," **£4**; twelve B.R. scale coaches, as new, **35/-** each. All brass electric turnouts, **20/-** (list price **33/-**); Caledonian Rly. two road engine shed, **£2**; L.N.W.R. clerestory, etc. coaches (fair cond.), **15/-**; hydraulic buffers, **10/-**; unused sleepers, **2/6** 100; single arm signals, **5/-**; double arm bracket, **12/6**; water tower, **15/-**.

Exley—Unused L.M.S. suburban coaches, **65/-** each.

L.M.C.—Complete boxed goods sets with smoking loco, **£8/10/-** (list price **£13/15/-**); L.M.S. 0/6/0 tanks, **£4** and **£5/10/-**; L.M.S 2/4/2 tanks, **£4/10/-** and **£5/10/-**; L.M.S. 4/4/0 and tender perfect, **£7/10/-**; unused scale brake vans, **35/-**; 4/4/0 tank loco. No. 2948, **£4/10/-**; motor bogie, **30/-**; nettle motor coach, **£3**; unused rail built buffers, **7/6**.

Bing—Clockwork 0/6/0 and tender (Southern), **£4/10/-**; 20 volt 4/4/0 L.N.E.R. and tender, **£5**. Both perfect.

Kirdon—D.C./3/2 split potential power unit, as new, **£9 (£13/5/6)**, D.C./5 unit, **£6/10/- (£8/9/-)**; minor unit, **£2/10/-**.

Hornby locos fitted L.M.C. 12V. d.c. mech.—4/4/0 "Bramham Moor," **£5**; 4/4/2 tank, **£4/10/-**.

CASH WITH ORDER PLEASE (NO C.O.D.) POSTAGE EXTRA

ITEMS TAKEN IN PART EXCHANGE. COMPLETE LAYOUTS EXCHANGED TO ANOTHER MAKE OR GAUGE

GAUGE "OO"

Trix—Latest type train sets, as new, and guaranteed with rails and double transformer, **£9/10/-** (list price **£13/7/3**), pre-war sets **£7/10/-**; presentation sets in cabinets, "Flying Scotsman," L.M.S. "Princess," "Coronation Scot," perfect cond., **£10** each; Continental 4/6/2 locos., **£7/10/-**; S.R. three coach train, **£5/10/-**; 0/4/0 diesel type, **£2/10/-**; locomotives used once only—B.R. 4/6/2 and tender, **£9**; 4/4/0 and tenders, **£5/10/-**; unused rails **2/3**; S.H. rails, **1/10**; hand points, **15/-**; remote controlled points, **25/-**; super controllers, **25/-**; unused latest type controllers, **27/6 (36/-)**; double output transformers, **35/-**; single output **20/-**. NEW—B.R. scale coaches, **19/6**; express coaches, **12/-**; 4/4/0 locos and tenders, **£6/3/6**; wagons, **3/11**; gondola cars, **10/9**, etc.; S.H. Manyways terminal station sets, 3025, **£3/10/-**; 3024 sets, **£3**; island platform sets, **17/6**; 4/4/0 Hunt class loco, **£4/10/-**.

Hornby-Dublo sets, guaranteed as new—Tank sets, **£8/10/-** (list price, **£10/4/7**), Gresley passenger sets, **£9/10/-**; Duchess sets, **£10/10/-** (all incl. transformer and controllers), tank locos, **45/-—55/-**. Gresley locos, **£3/10/-**. New rails, **3/5**; half rails, **2/6**; points, **10/3**; S.H. curves, **2/6**; straights, **3/-**; half str. **2/-**; points **6/6**; term. rails, **4/6**; uncoupling rails, **5/-**; transformers, **30/-**; controllers, **40/-**; through stations **32/6**; footbridges, **8/6**; remote cont. signals, **15/-**; coachcraft scale model L.M.S. coaches fitted H-Dublo type couplings and wheels, **17/6**.

Graham Farish—Full range new locos, etc., as advertised, also new G.P.S. sets with track on base, **£7/2/3**; extra track on base, **5/-** (usually **8/3**); S.H.G.P.S locos and tenders, **£3/10/-**; wagons, **4/-**; vans, **5/-**.

Trackmaster—New clockwork 0/6/2 tank locos, **25/-**; wagons, **2/11**; vans, **3/6**.

Gaiety—New 2- or 3-rail G.W.R. or B.R. Pannier tank locos, **£3/8/6**; S.H. models, **£2/10/-**.

Two-Rail Locomotives—(New Hornby-Dublo locos converted) 4/6/2 "Duchess of Athol," **£6/15/-**; 4/6/2 L.N.E.R. "Gresley" **£6/10/-**, 0/6/2 tanks, **£4/10/-**. Also L.M.S. compound, **£5**; 0/6/2 tank (Romford mech.), **£4/10/-**; G.W.R. 4/4/2 tank, **£4/10/-**; St. Reidpath, 0/6/0 tank, **£5**; L.N.E.R. (ex G.N.R.) 0/6/0 tank, **£6**; American switcher **£4**.

Marklin—Continental 2/10/0 loco and tender, Cat. No. G.800, **£9/10/-** (ten driving wheels); Cont. 4/6/2, **£7**; rails **2/-** each; new rolling stock and scale coaches.

Point Motors—Rogerson (**7/6** type) **6/-**; (**10/6** type), **8/-**.

Coach Bogies—Cramer, brand new, **5/-** per pair (two bogies).

HATTONS : 136 SMITHDOWN ROAD : LIVERPOOL, 15

· LIONEL · M·A·RKLIN · TRIX · HORNBY · ROVEX · PECO ·

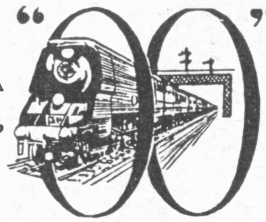
· S. & B. · HAMBLINGS · JAMIESON · MODELCRAFT · LILLIPUT WORLD MODELS · KIRDON · GEM ·

· GRAHAM FARISH · ROMFORD · RATIO · ACRO · WRENNS · ERG · ESSAR · EXLEY · GAIETY ·

TAYLOR & McKENNA

98, CRAVEN PARK ROAD, HARLESDEN, N.W.10

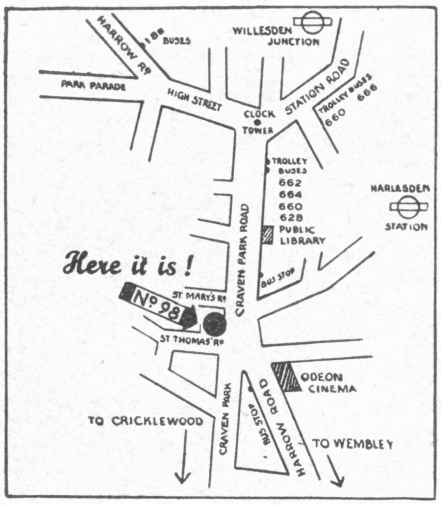
TELEPHONE WIL. 5069



COMPLETE CATALOGUE
PRICE 7d POST FREE
OVERSEAS CUSTOMERS
3 INTERNATIONAL REPLY COUPONS

RATIO COACH KITS

L.M.S. Restaurant Car
L.M.S. Auto-train Coach
G.W.R. All Third Clerestory
G.W.R. Brake Third
S.R. Motor Third Brake
S.R. Third, Saloon Trailer
S.R. First and Third Compartment
S.R. All Third Main-line
S.R. First and Third Main-line
N.E. All Third Main-line
N.E. Restaurant Car
● All at **11s. 11d.** each ● G.W.R. Push-pull **16s. 6d.** Kit ● Colours **1s. 6d.** per jar ● B.R. Crimson, B.R. Cream, G.W.R. Chocolate, S.R. Green, L.M.S. Maroon, Matt Black, Matt Grey, Red Oxide Primer, Matt White, G.W.R. Cream, L.N.E. Apple Green, etc.



TRIX AMERICAN

Caboose ... ... **16s. 6d.**
Box Car ... ... **13s. 0d.**
Texaco Oil Tanker **14s. 9d.**
Union Oil Tanker **14s. 9d.**
Switcher and tender **97s. 6d.**

SHENPHONE C.7 CONTROLLERS 39s. Each

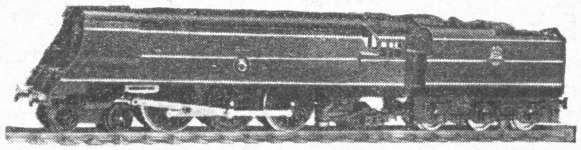
Hornby "Duchess" and Tender ... **81s. 2d.**
Hornby Gresley and Tender **77s. 6d.**
Hornby 0-6-2 T.... **57s.**
Hornby L.M.S. Coaches **14s. 11d.**
Hornby L.N.E. Coaches **9s. 7d.**

KIRDON POWERPACKS FROM 63s: EACH

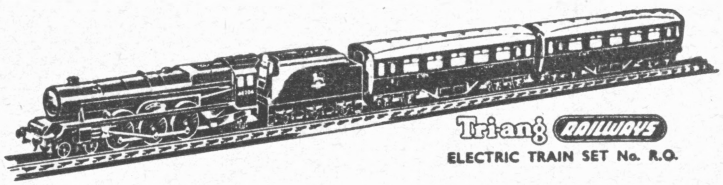
Post extra on all orders

GRAHAM FARISH

ALL LOCOS · ALL TITLES
ALL COLOURS
WAGONS AND COACHES
TRACK IN ABUNDANCE, 2- & 3-RAIL. POINTS, DIAMONDS & CROSSOVERS



ROVEX SETS FROM £3/15/0



ALL SPARES IN STOCK

LIONEL

COMPLETE SETS AND ACCESSORIES

THE WORLD'S FINEST RAILWAY ALL ELECTRIC & AUTOMATIC

DE LUXE COMPLETE SETS

M·A·RKLIN

SEEING IS BELIEVING

1st PRE WAR AND STILL 1st

★ **EVERYTHING BY EVERYBODY IN OUR 7d. CATALOGUE** ★

The most authoritative and up-to-date manual on the subject.

320 pp., 8" × 5½" with 360 illus. 21/- net.

GREENLY'S MODEL STEAM LOCOMOTIVES

both completely revised by ERNEST STEEL M.J.I. Engrs.

An entirely new edition of a famous handbook.

9¼" × 6¼" with 36 illus. and fully detailed plans. Ready Shortly 4/6.

Published by CASSELL

GREENLY'S MODEL STEAM LOCOMOTIVE Designs and Specifications

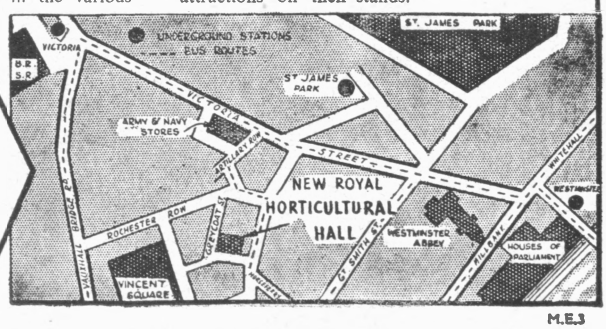
STOP! – DO YOU KNOW HOW TO GET TO THE "MODEL ENGINEER" EXHIBITION?

Held at the New Horticultural Hall, London, from the 20th/29th October. This is a *must* for all Model Engineer enthusiasts. Entries are received from all over the World and valuable prizes are awarded in the various competition sections. Also on view will be all the latest developments in new tools and techniques for model makers while the Services and Industry will have many attractions on their stands.

The Exhibition opens at 11 a.m. (except on opening day when it will be 12 noon) and closes at 9 p.m. Admission 3/-. 1/6d for under 14's.
The New Horticultural Hall is well served by London Transport.

BUSES 11, 24, 29, 39, 76, 134, 290, ask for Army & Navy Stores. 2, 36, 57a, 57, 169, ask for Rochester Row. 3, 59, 59a, 77, 77a, 88, 159, ask for Horseferry Road. 10, 46, ask for Royal Horticultural Hall.

TUBE to St. James Park via Circle Line.



INTRODUCING SOMETHING NEW! . .

"SEVNO" KITS

FOR BUILDING 7 MM. LOW RELIEF MODELS

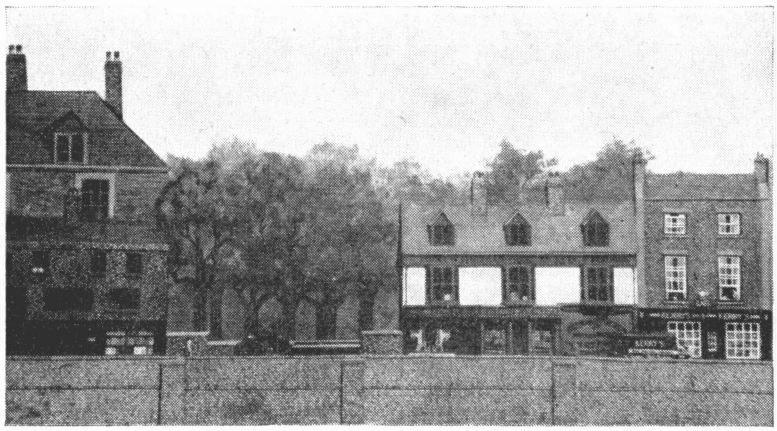
We have pleasure in introducing the first three models in our new "Sevno" range of 7 mm-Gauge "O" "Low Relief" Kits. These Kits have been designed for us by the well-known writer and designer—Mr. P. R. Wickham. The models are very easy to build. Even the average modeller can now build up an attractive scenic background.

The provision of painted backgrounds has always been a problem to the unskilled. The use of "low relief" buildings provide the ideal solution, and with these **"Sevno"** Kits this work now falls within the field of modelling already familiar to most people.

Not only are the models easy to build but the result is far superior to even a professionally painted scene.

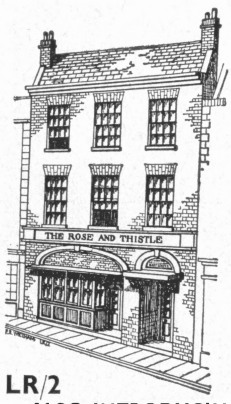
The Kits make up into a frontage fully detailed in relief, yet only ½ in. deep. The models are planned so they can be placed together in any desired order.

Models built from these Kits are true to scale and architecturally correct. They are fully detailed and can be completed with the minimum of assembly work.



THE ABOVE ILLUSTRATION SHOWS THE EFFECTIVENESS OF LOW RELIEF MODELS AGAINST A SIMPLE PAINTED BACKGROUND

LR/1



LR/2

LR/3

THE FIRST THREE KITS IN "SEVNO" LOW RELIEF RANGE

LR/1 GEORGIAN CAFE
LR/2 INN
LR/3 SHOPS · OFFICES (STONE)
11/- each (Tax paid)

KITS CONTAIN :—

Full size plan with sectional perspective drawings showing the position of each part. Excellent true-to-scale (7 mm.) Building Papers.
Printed cards for name-plates, signs and (where applicable) colour prints on card of window display. Clearly printed wood shapes. Printed Acetate sheet for windows, etc.

Model Engineer Exhibition

A display of **"Sevno"** (7 mm) also **"Anorma"** (4 mm.) models and Accessories will be displayed on the Precision Model Engineering Co.'s stand at the above Exhibition.

NOT FORGETTING !

Our "Anorma" 4 mm. Lineside and Architectural Buildings Kits are, of course, still in production.
This range which now covers 32 different Kits is already well known.
Send for our newly published 1952/53 "Anorma" Catalogue/Handbook. This features new Accessories and still contains the very popular and instructive article **Miniature Scenic Modelling** written for us by John H. Ahern.
On receipt of 1/- in stamps we will send you a post free copy, but ask for it at your local dealer first.

ALSO INTRODUCING !

7 mm. KIT FOR BUILDING A PLATELAYER'S HUT

This easy to build Kit of a Gauge "O" Platelayer's Hut is the forerunner of yet another new range of "Sevno" Kits for building 7 mm. Lineside Buildings.

The contents of Kit covers :—

Fully detailed working plan. 7 mm. Building Papers. Wire for Fall Pipes Clearly printed wood shapes, Acetate sheet for windows, Printed card for doors, etc. It even includes ready-turned Hardwood Chimney Pots and Water Barrel.

KIT PRICE 8/3 (Tax paid)

"SEVNO" RANGE OF 7 mm. BUILDING PAPERS

This new comprehensive range of "Sevno" 7 mm.-"O" Gauge Building Papers, includes such unusual types as Squared Rubble, Tudor Brickwork, Random Rubble, Timber Planking, English, Flemish and Running Bonds, Tiles, etc. To give scale effect the Ridge and Valley Tiles are printed on thin card.
These have been designed for us by Mr. P. R. Wickham, and we have no hesitation in saying they are the finest papers yet offered. Sheets are 15 in. x 9½ in. Full details are given in our "Sevno" leaflet.

"BUILDING PAPER TECHNIQUE" By P. R. WICKHAM

The method of applying the Building Papers to your models is fully explained in this instructive little book.
The hints and tips given will enable you to obtain that professional finish.
No modeller in architectural subjects should be without a copy. Price 1/3

SEND 3d. in stamps for our illustrated folder giving full details of "Sevno" Kits and Accessories. *Please ask for the "Sevno" leaflet.*

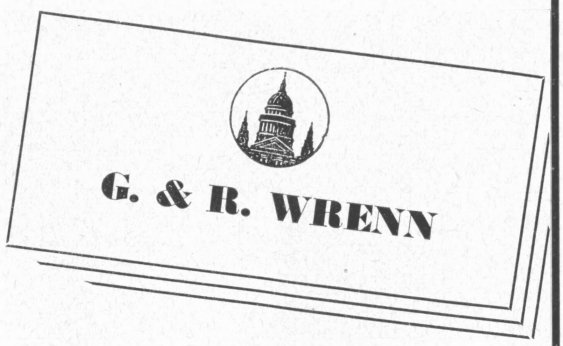
MINIKSCALE LIMITED · 1, Clifton St · Liverpool · 19

improve your LAYOUTS *with TRACKWORK designed and manufactured by the SPECIALISTS*

WRENN "OO" TRACKWORK is accurate, realistic, easy to lay, and is guaranteed to give long and reliable service. With specially designed items for FARISH, ROVEX, TRIX and HORNBY users it proves popular for beginners and experienced modellers alike.

***WRENN TRACK. BENDS** the **PERMANENT WAY** and **REALLY STAYS PUT.** Suitable for all types of locomotives and rolling stock. It is tremendously strong and can be straightened and recurved to suit all layout alterations.

The full range includes Track, 2-rail, **4s. 11d.** per yard, 3-rail, **6s. 5d.** per yard, Crossovers, 2-rail (F. & T.) **24s. 7d.**, 3-rail (F. & T.) **27s. 6d.**, Turnouts, 2-rail (R. & L.H.) **9s. 9d.**, 3-rail (R. & L.H.) **11s. 6d.**, Diamond Crossings, 2-rail (R. & L.H.) **11s.**, 3-rail (R. & L.H.) **12s. 10d.**, point levers **1s. 10d.** each; Fishplates **4s. 7d.** per 4 dozen packet.



● *Ask your Retailer for illustrated literature and latest details.*

G. & R. WRENN, Blackheath, London, S.E.3.

K's PRECISION MODEL ENGINEERS

MERA DEALER

"Hanover Court,"
197, Uxbridge Road,
Shepherds Bush, W.12

Telephone: SHEpherds Bush 5254

VISITING THE "M.E." EXHIBITION ? ? ? ?

Then why not pay us a visit at the above address and see the most comprehensive stock of model railway accessories in the COUNTRY. Coupled with a service that is second to none. If it is model railways—and it can be done—we can do it. Anything from the complete locomotive downwards.

Are you building a locomotive for our competition which again will be judged in December, if not send s.a.e. for details.

Magnet for Acro and H. & N. couplers **9d.** each. Reservoil Bearings in "O" and "OO", **6d.** and **9d.** each. A must for your locomotive.
Sponge rubber for silent running **18s. 6d.** sq. yd. Any size supplied.

IN ASSOCIATION

CHERRY'S (SURREY) LTD.
Contractors to British Railways and H.M. Government.
62, Sheen Road, Richmond, Surrey.
Tel.: Richmond 2454.

CHERRY'S (NORTHERN) LTD.,
10, Norham Road,
WHITLEY BAY,
Northumberland.

Detailed unmachined "OO" diecast wheels. Drivers (squared centres) 18, 21, 24 mm. **6d.** each. Postage (6) 3d.
Spoked bogie and tender 12, 14, 16 mm. **4d.** each. Postage (6) 3d.
Standard "OO" axles with nuts **6d.** each. Postage (3) 2½d.

"OO" detailed L.M.S. brass bogie side frames, **1/6** per pair. Postage (per pair) 3d.

The famous MM 4 mm. scale G.W.R. Pannier Tank kit, complete with motor frame. NOW ONLY **15/-** Postage 6d.

WE BUY Marklin "OO" material in any quantity.

Send for our latest list of Gauge "O" locomotives. Gauge "OO" locomotive list also available. Send 2½d. stamp for either list.

AGENTS and STOCKISTS for all the foremost manufacturers.

Large stocks of engines—rolling stock—trackwork and components for all gauges.

Available now. Limited quantity of ROKAL "OOO" sets, track and pointwork. RIVAROSSI "OO" engines, points and track.

Many fine hand-built Gauge "O" and "OO" engines.

3½ in. gauge coal-fired 0-2-2 engine and tender "RAINHILL." Mahogany lagged boiler. Completely fitted, **£85.**

We BUY HORNBY-DUBLO and Trix in any quantity.

See the models working in our DISPLAY WINDOWS.

Part exchanges readily arranged.

Enjoy the Advantages of Running Your

ROVEX TRAINS on

SCALE Permanent Way

PECOWAY Type R*—by far the cheapest and best Assembled SCALE Permanent Way—or PECO INDIVIDULAY Flat Bottom True-to-Type Components using Hi-Iron Rail, for those who prefer to construct their own track.

ASK YOUR DEALER TO SHOW YOU THESE AND OTHER PECO PRECISION PRODUCTS

In case of difficulty, write direct. Fully Illustrated Catalogue, 1s. 6d., post free.

* *Remember* *There is a form of PECOWAY or PECO INDIVIDULAY to suit ALL Small Scale Systems.*

BE RAILWISE—Insist on
PECO QUALITY PRODUCTS—Your GUARANTEE of Satisfaction

TRADE ENQUIRIES TO THE MANUF;

THE PRITCHARD PATENT PRODUCT Co LTD
PECOWAY—STATION ROAD—SEATON—DEVON
TEL. & GRAMS.—SEATON 542

RETAILERS ONLY SUPPLIED EXPORT ENQUIRIES INVITED

M. S. ROSE LTD.

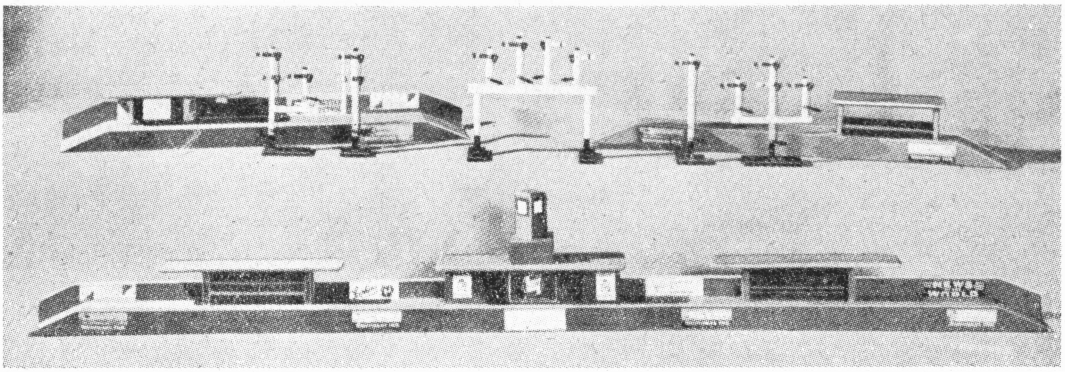
SOLE DISTRIBUTORS OF "TRUESCALE" PRODUCTS

76, COLUMBIA ROAD, LONDON, E.2

Telephone : BIS 9761

"O", "OO" & "TT" Gauge Railway Signals and other Lineside Accessories. Comprehensive Range.

OBTAINABLE FROM THE LEADING STORES AND MODEL SHOPS. SEND STAMP FOR NAME OF NEAREST STOCKIST.



YOU CAN BUY "TRUESCALE" PRODUCTS WITH CONFIDENCE
ALWAYS ASK FOR THEM BY NAME

This book should be in your hands!

Price **4/6**

Written by one of our foremost experts on handicrafts, its 108 pages are full of clear illustrations and concise instruction on how to excel in the art of cutting.
If you already use X-acto this book will show you how to get the best from these remarkably versatile knives and tools. If you don't, you'll soon see how much more accurate your work can become; how, in fact, with X-acto there's *more* skill at your fingertips. At 4/6d the X-acto Handbook will be the Craftsman's Book of the Year. It should be in all craftworker's hands. See that you get your hands on a copy as soon as possible. From all X-acto Stockists or from

TRIX LTD. (Dept. G) 11 OLD BURLINGTON STREET, LONDON, W.1

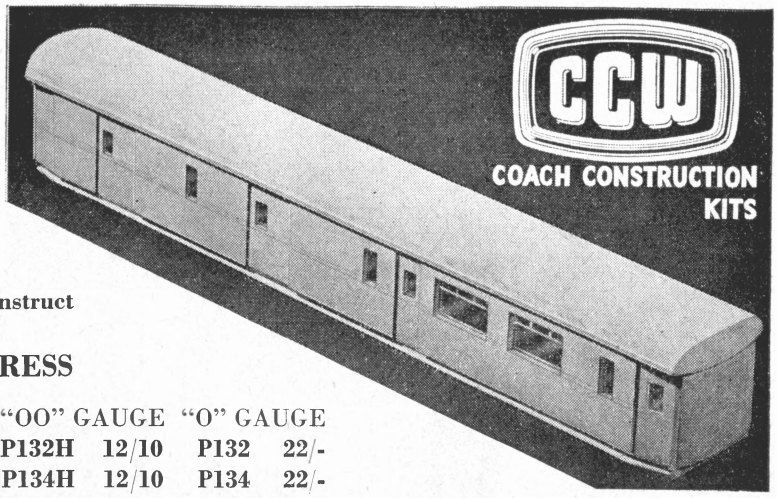
TRIX X-acto

This is the range of X-acto interchangeable blades and tools that keep X-acto Knives sharp. There's a blade for every cutting job.

G&G

"CORNICHE"
or
"CORNISH"

We all know that the Corniche Road is on the French Riviera, but we have our own Cornish Riviera with its famous train.



CCW now offers kits for you to construct your own

CORNISH RIVIERA EXPRESS

	"OO" GAUGE		"O" GAUGE	
60 ft. 3rd. Corridor Brake ..	**P132H**	**12/10**	**P132**	**22/-**
60 ft. 1st-3rd Corridor Compo. ..	**P134H**	**12/10**	**P134**	**22/-**
60 ft. 3rd. Vestibule Diner ..	**P135H**	**12/10**	**P135**	**22/-**
60 ft. 1st Restaurant-Kitchen ..	**P136H**	**12/10**	**P136**	**22/-**

These prices include Purchase Tax

Trade enquiries to ERG (Bournemouth) Ltd. or to CCW Productions.

Write for complete CATALOGUE (RN) which lists in full all CCW kits and many other useful accessories for the model builder. Send 7½d. in stamps.

CCW PRODUCTIONS

CHICHESTER
Sussex, England.

LAY "OO" GAUGE TRACK ON "CCW" CORK BASES

AT THE COMMENCEMENT OF A NEW MODELLING "SEASON" WE ARE ANXIOUS TO IMPRESS ON *YOU* THAT WE CAN SUPPLY ALL THE ITEMS YOU REQUIRE. PLEASE TREAT US AS IF WE WERE "JUST ROUND THE CORNER" FROM YOU

'OO'

ACRO — ANORMA
CCW — ERG
EVANS — EXLEY
FORMO—GAIETY
GRAHAM FARISH
HAMBLING—HANSON
JAMIESON—MELLOR
MASTERPIECE
MODELCRAFT
PECO — P.J.
RATIO—REIDPATH
ROCHE—ROGERSON
ROMFORD—ROVEX
S. & B.—SLATER
S.M.E.C.—S. CHAPLIN
SKINLEY—TRIX
WARD—WRENN
ZENITH, ETC.

AS WILL BE SEEN FROM THE LISTS SHOWN—YOU NEED ONLY ORDER FROM ONE SOURCE

TRUE MODEL co

211, UPPER RICHMOND ROAD
PUTNEY, S.W.15. (PUT. 9509 & 2884)

We also specialise in architectural models to Order

AIRCRAFT—CARS—SHIPS

'O'

LEEDS—MILLS
ROCKET—ROMFORD

'TT'

CCW—PECO
ROKAL—TAYLOR

'ELECTRICAL'

FARISH — H. & M.
KIRDON — RAYLECT
ROKAL — SHENPHONE
TRIX

BOOKS—REPAIRS
PAINTING
WOODS
ACCESSORIES

MRA DEALER

MASTER MODELS

*** YOUR DEALER WILL SHOW YOU THE LATEST ITEMS!**

"OO" SCALE HAND FINISHED ACCESSORIES

L.S.A. Lamp and Advertisement	1/3
BS1 Buffer Stop with Buffers	2/-
BS2 Buffer Stop with Lamp	2/-
SG & SM Single Seats, grey and green	6d.
H1, H2, H3 Hoardings	1/-, 1/7 & 1/-
T1, T3 Timetables	1/- & 1/7
T4 Train Departure Board	1/7
Sets A, B, C & W Track Signs	2/-, 1/10, 1/10 & 2/-
TP4 4-arm Telegraph Pole, without base	5½d.
TPB4 4-arm Telegraph Pole, with base	8½d.
TD6 6-arm Telegraph, without base	10d.
FB6 6 in. Fencing, with base	9½d.
F12 12 in. Fencing, without base	1/4½
WT Water Tower, oblong	6/6
* WC Water Crane	2/6
* LG Loading Gauge	2/-
* SS Single Signal, Home or Distant	2/6
* DS Double Signal, Home and Distant	3/6
* C2 Packets of Imitation Coal. Double Size	9d.
* No. 1 Track Accessories	2/-
No. 1 Railway Staff, boxed set 5 figures	2/-
No. 2 Railway Passengers, boxed set 5 figures	2/-
No. 3 Assorted Figures, boxed set 5 figures	2/-
No. 4 Seated Figures, boxed set 5 figures	2/-
No. 5 Seated Figures, boxed set 5 figures	2/-
No. 6 Double Seats, boxed set of 2 seats	2/-
No. 7 Platform Accessories, boxed set of 7 pieces	2/-
No. 8 Milk Churns, set of 1 dozen	1/6
No. 9 Level Crossing Gates, boxed pair	3/6
No. 10 Station Equipment, boxed set 4 pieces	2/6
No. 12 Electric Trolley with Trailer	2/9
* No. 14 W. H. Smith, two-sided Bookstall	5/-
* No. 15 Telephone Booths, boxed set of 2	2/-
No. 16 Set of 3 single Station Lamps	1/6
No. 18 Two Cable Drums	2/-
* No. 19 Tar Barrels, boxed set of 6	1/-
* No. 20 Oil Barrels, boxed set of 6	1/-
* No. 21 Platform Gardens, 2 shapes	1/6
* No. 22 Platform Gardens, 2 shapes	1/6
* No. 23 Working Party	2/-
* No. 24 Police Boxes, boxed set of 2	2/-
* No. 25 Placards, boxed set of 3	1/6
* No. 26 Sleeper Buffer	2/6
* No. 27 Scale with Light Luggage	1/-
* No. 29 Glass Crates, boxed set of 3	1/-
* No. 31 Enquiry Kiosks, boxed set of 2	2/-
* No. 33 Esso Oil Drums, boxed set of 3	1/3
* No. 34 Watchman's Hut with Workman	2/6
* No. 35 Lagged Cable Drum with 3 Workmen	2/6
* Petrol Pumps, asst. "Esso," "B.P." "Shell"	1/-
* Oil Cabinets, asst. colours	10½d.
* "Esso" Standard Sign	8d.
* Garage Equipment set, 3 pumps 1 cabinet, 2 signs, attractively boxed	5/6
* Road Signs, all types	5½d., 6½d.

ALSO HAILEY MODEL RAILWAY STATIONS, ANORMA CONSTRUCTIONAL KITS, RAYLECT TRANSFORMERS & RECTIFIERS.

MANUFACTURERS AND SOLE DISTRIBUTORS :—

B. J. WARD LTD., 130, WESTMINSTER BRIDGE ROAD, LONDON, S.E.1.

SMOOTH CONTROL?

KIRDON of Course!

KIRDON S.C./oo

A VARIABLE RESISTANCE

★ TAPER WOUND
★ PANEL MOUNTING
★ FORWARD/REVERSE
★ NO SWITCHES

20/6

DC/1 RECTIFIER UNIT

12v. D.C. at 1 amp.

"OO" **£4 - 6 - 3** "O"

DELIVERY 14 days

KIRDON ELECTRIC LTD.

FACTORY YARD, W.7 EALING 1684

"JAMIESON"

LOOK! Here it is

B.R. 2-6-4 TANK CLASS 4 LOCO KIT

Mk. III. Loco Construction Kit.

Price **42/-**, plus **9/4** P.T.

Mk. IIIa. Running Gear Kit. With full length main frames, bogie, trucks, Romford wheels and axles. coupling rods and pins, collectors.

Price 2 rail **49/6** plus **11/-** P.T.
,, 3 ,, **44/9** ,, **9/11** P.T.

ORDER NOW to avoid disappointment

Delivery before Xmas

LOCO KIT CATALOGUE **1/-**

H. JAMIESON & CO.
Midtaphouse Works
LISKEARD, CORNWALL

"HORNTON'S" of BIRMINGHAM

have pleasure in announcing that their new quota of the famous American "LIONEL" train sets and accessories have just arrived. Track, points, and all working models in stock; e.g., automatic coal loaders, whistling stations, cattle cars, and numerous other fascinating models. Yes, they're wonderful, anyway you look at them, both in appearance and operation. Watch them perform! Hear the long low whistle of the smoke-puffing steam locomotive, the answering horn of the sleek diesel. There's nothing to compare with them. If you like real model railroading it's "LIONEL" for you.

Stockists also of :—

Graham Farish, Leeds Model, Rivarossi, Acro, Kirdon, Wrenns, Gem, ERG, Anorma kits, etc., etc.

STOP PRESS:

Arriving shortly, the NEW Graham Farish locos, coaches and goods wagons.

Send us your queries, we may be able to help you.

HORNTON'S 32, STEPHENSON STREET, BIRMINGHAM 2

Phone : MIDland 0972 (Facing stage door, Theatre Royal)

WE SUGGEST—

that whilst in London you pay us a visit and inspect at your leisure the products of all the leading Model Railway Manufacturers.

We have as varied and comprehensive a stock as any in the country, and we deal *only* in models—they are not a sideline, but our whole business.

Expert model man and beginner are equally welcome, and we guarantee that you will find a visit well worth your while.

113 bus from Oxford Street passes our door; or Northern Line Tube to Hendon Central and thence by 113 bus; if travelling by car, leave London by Finchley Road, and Watford Way.

MERA DEALER

H. A. BLUNT & SONS LTD.
MILL HILL CIRCUS, N.W.7

MIL. : 2877

"00" ACCESSORIES FOR ★★ REALISM! ★★

Slater's Humanitures. 8 pedestrians, **5/2**; 8 seated passengers, **4/11**; 6 passengers, **3/1**; 9 pieces luggage, **1/10½**; Driver and fireman, **1/6.**
Trix Figures. Passengers, **3/-** set; Station staff, **2/9**; Luggage **3/3.**
Britains farm figures, passengers, station staff and luggage all **2/8** box. Farm animal sets **2/6** and **4/11** box.
M.M. Figures 6 station staff, **2/-**; 4 sitting passengers, **2/-**; Passengers, **2/-**; Road working party, **2/-**
Station Seats single **6d.**, double **1/-** each.
Cast buffer stops, **2/-**; Water towers, **6/6**; Weighing machines, **6d.**; Chocolate machines, **6d.**; Churns, **2d.**; Placards **6d.**; Oil & Tar barrels, **2d.** each. Telephone, Police, Enquiry Kiosks, **1/-** each. Oil drums, **5d.**; Glass crates, **4d.**; Cable drums, **1/-**; Platform Gardens, **9d.**; Bookstall, **5/-**; Sleeper buffers, **2/6.**
Super Detail Weighing Machines, **1/-**; Platform weighing machines, **10d.**; Chocolate machines, **10d.**; Brass barrels, **2½d.**; Churns, **2½d.**
Station Lamps. Single, **7½d.**, with name **9½d.**, with time-table, **1/1**, with name and time-table, **1/3**; Hoardings and time-tables, **1/-**, **1/7**; Signals H. or D. single, **2/6**, double, **3/6**; Water crane, **2/6**; Loading gauge **2/-**; platform accessories **2/-** set of 7, Station equipment, **2/6** set of 4; Platform trolley and trailer, **2/9**; Motor cyclist, **11d.**; Haystacks, **11d.**, **1/4½d.**; Level crossing gates, **3/6** per pair.
Bilteezee Cards Series A, B, C, and D, **1/6½** to **2/2** per card.
Anorma and Lineside Kits, full range.
Building Papers—over 50 types. Advertisements **4d.** and **7½d.** sheet.

Please add postage.

JONES BROS. OF CHISWICK

1 min. from Turnham Green Station. Open Saturdays until 6.30 p.m.

56, TURNHAM GREEN TERRACE
CHISWICK, W.4.

PHONE: CHI 0858. ESTABLISHED 1911

BUD MORGAN The Model Specialist 22A, CASTLE ARCADE, CARDIFF. Tel.: 29065

HAVE YOU JOINED MY SAVINGS CLUB? Send for full particulars TODAY

READY MADE "OO"-G. TRACK
WRENN track 2-rail per yd., **4/11**, 3-rail per yd., **6/5**
WRENN turnouts L.H. and R.H., **9/9** ; Diamond crossings 2-rail, **11/-** 3-rail, **12/10.**
WRENN 3-rail turnouts, **11/6** ; Facing and trailing crossovers, 2-rail, **24/7**, 3-rail, **27/6.**
FISHPLATES per packet, **4/7.** The above TRACK is suitable for running ROVEX locomotives, etc.
FORMO TRACK 2-rail per yd, **4/3½** ; 2-rail (brass), **7/1½** ; Points L.H. and R.H., **6/3.**
PECO TRACK 2-rail T/steel 18 in., **2/11** ; Points L.H. and R.H., **18/4** ; Track type (R) Rovex, **3/6.**
ROVEX TRACK straights, **2/6** ; curved, **2/6.**
TRIX TRACK curved and straight, **2/8** ; ½ straight and ½ curved, **2/4** ; Points hand operated, **18/9** ; Remote control points, **31/-.**

TRACK PARTS
PECO N/S Bullhead doz., 18 in., **6/1** ; Rail T/S per doz., 18 in., **3/10** ; Flat bottom Peco N/S, doz., **7/-** ; Flat bottom Peco T/S, doz., **4/9** ; Sleepers, chairs, fishplates, etc. for Peco track laying send **1/6** for up-to-date catalogue.

"OO"-G. BUILDINGS
GRAHAM FARISH Brookdale Station, **5/-** ; The Timbers house, **5/-**, and the Goods Depot, etc., **7/6** each.

TRANSFORMERS AND CONTROLLERS
KIRDON DC/1, **86/3** ; GRAHAM FARISH, **75/-** ; TRIX transformer, **50/-** ; Controller, **36/-.** ROVEX Battery Controller, **9/11.**

"OO"-G. LOCOMOTIVES, all 2-rail
ROVEX Princess Class, **39/6** ; Tender to suit, **4/11.**
GRAHAM FARISH Locomotives. Prairie Tank, **84/-**, G.W. green, **89/-** ; King Class, **119/6** with special fittings, **124/6** ; Golden Arrow, **114/6** ; Merchant Navy, **109/6.**
TRIX Locomotives (3-rail) American type switcher and tender, **97/6** ; The Diesel Flyer, **147/-** ; 4-6-2 Pacific and Tender, **£10 10s.** ; Midland Region 4-4-0 compound, **123/6** ; B.R. Passenger and Tender, **70/6** ; B.R. Goods Tank, **63/-** ; Passenger Tank, **63/-.**
GAIETY G.W., 2- and 3-rail, **69/6.**

COACHES and ROLLING STOCK
ROVEX Coaches, **7/6** ; New B.R. coach, **8/6.** Goods Closed **4/6.**
GRAHAM FARISH Pullman, **27/6** ; Wagon Lits, **30/-**; Golden Arrow, **30/6** ; Hamblin's G.W. Coaches, **33/7.**
TRIX Bogie Coaches, **12/-** 1st, 3rd, and restaurant, Scale B.R. 1st, 3rd and restaurant, **19/6.**
GRAHAM FARISH rolling stock Wagon, **5/6** ; Closed Wagon **6/6** ; Brake Van, **7/6.**
TRACK MASTER open, **3/3**, closed, **3/10** ; G.W. and N.E. TRIX open from **3/11.** Send for illustrated TRIX price list free.

TRAIN SETS
ROVEX complete electric "OO"-g train set for only **75/-**, post free. Set comprises the following : 4-6-2 Locomotive and Tender 2 Coaches, 14 pieces of track and Battery Controller.
TRIX PASSENGER SET : Locomotive and Tender, 3 bogie Coaches, Controller, plugs, wire, oil and fully illustrated instruction book, **£8 2s. 6d.** (rails extra). Rails from **54/9** per set, Transformer **50/-.** New Coloured Trix Catalogue **2d.**
TRIX GOODS SET as above but with 5 wagons instead of coaches, **£7 3s. 6d.** (rails extra).
GEM MECHANISMS stocked. 16 different wheel spacings, 18, 21, 24, 26 and 27 mm. diameter wheels, 4 coupled, **£3 17s. 0d.**, 6 coupled, **£4 12s. 3d.** Send for illustrated leaflets. X3 Motor still only **20/-** post free.

MASTER MODELS "OO"-G. SCALE HAND FINISHED RAILWAY ACCESSORIES.
TRACK ACCESSORIES : Railway Staff, Passengers, ass. Figures, seated figures all at **2/-** per box. W. H. Smith Bookstall, **5/-** ; Telephone Booths (2), **2/-** ; Level crossing gates, **3/9** a pair ; Electric Trolley with Trailer, **2/9.** Gardens for platform, **1/6,** etc. Send for full list free.

DON'T FORGET MY XMAS CLUB. Send for the following lists : ROVEX, TRIX, WRENN and MY OWN LIST all sent FREE. Please enclose a self addressed envelope for the above lists.

FOR PERFECT LUBRICATION OF ALL YOUR MODEL EQUIPMENT

DÜBOIL

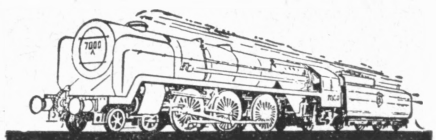
Successfully tried and proved and regularly used by thousands of modellers.

WILL NOT CLOG, CORRODE, THICKEN OR RUN

per **2/-** bottle

For best results apply with the S. & B. "Dermic" Oiler.

From all good model shops. Bottled and distributed by



GEORGE BRADSHAW

5 & 6 WESTERN ROAD HOVE · SUSSEX

GAUGE "O"
Watercranes. Swivelling. Yard or platform, **3s. 6d.** each, tax 9d.
Couplings. Single link, **3d.** each plus tax 1d. Three link **4d.** each plus tax 1d.
Coach Bogies. Sprung. Compensating, with buffing plates, dural wheels, 24 mm. diam., **15s.** pair, plus tax 3s 4d.
Coach Gangways. Concertina type. Wkg. **2s.** each, tax 5d.
Cast Iron Coach Wheels (disc type). Fine or coarse scales. 24 mm. diam. **2s. 6d.** pair, plus tax 7d.
Cast Iron Wagon Wheels (Spoked). Fine or coarse scales. 22 mm. diam. **2s. 6d.** pair, plus tax 7d.
Coaches. (Fully fitted inside). G.W.R., S.R., and L.M.S.R., most types of corridor and suburban now available. From **60s.** each, plus tax 13s. 4d. Dining cars, and T.P.O's, from **75s.** each, plus tax 16s. 8d. L.N.E.R. buffet cars (cream and green finished), **75s.** each, plus tax 16s. 8d.
Sleepers. Fine or coarse scales. Stained hardwood, **3d.** per 100 plus tax 8d.
Battens. 36 in. long. Black hardwood, **5s. 6d.** doz., plus tax 1/- doz. Special sizes of sleepers and battens cut to order.
Posters. G.W.R., S.R. and L.M.S.R., Pkt. **4d.** (suitable "OO" also)

GAUGE "OO"
Couplings. Single link, **3d.** each, plus tax 1d.
Sleepers. Coarse scale only. Stained hardwood, **1s. 6d.** per 100 plus tax 4d.
Posters. 11 assorted per sheet. Unique small town printers' bills, coloured. (Suitable Gauge "O" also), **3d.** per sheet.
Watercranes. Swivelling. Yard or platform, **3s. 6d.** each, tax 9d.
Coach Gangways. Concertina type. Wkg. **1s. 6d.** each, tax 4d.
Coaches. Bodies only, complete except for bogies, G.W.R., S.R., and L.M.S.R. Fully fitted inside, most corridor and suburban types now available, **30s.** each, plus tax 6s. 8d. Dining cars, T.P.O's., and special types, **36s. 6d.** each plus tax 8s. 1d.
Signal fittings, platform furniture, track parts, accessories.

Goods to B.R.M.S.B. Standards.
New illustrated Catalogue now ready **1s.**, plus post **3d.**
Post extra on all orders.

EDWARD EXLEY (SALES) & CO. LTD.

HIGHLAND HOUSE, WORKSOP NOTTS.

Telephone : Worksop 2362. *Trade Enquiries Invited*

The MODEL RAILWAY NEWS

Vol. 28 No. 334 October, 1952

Editorial Offices :
23, Great Queen Street, London, W.C.2.

CONTENTS

Notes of the Month 205
In Defence of "HO" 206
With the Clubs 208
Weatherproof Track 209
Trade Stands at "The Model Engineer" Exhibition, 1952 210
The Great Western "Siphons" 212
Section Switches 214
Railway Topics 216
Talking Shop 219
Garve Station, Highland Railway .. 220
Leicester Exhibition 224
Editor's Mailbag 226

Notes of the Month

THE MODEL ENGINEER EXHIBITION

On Monday, the 20th of this month, H.R.H. The Duke of Edinburgh, will open *The Model Engineer* Exhibition. To mark the occasion, readers will note that this issue of THE MODEL RAILWAY NEWS is enlarged to 44 pages, partly to accommodate the announcements of our friends in the trade, many of whom have taken stands in the exhibition. The later date of the show this year, coupled with the special auspiciousness of the occasion, has provided manufacturers and dealers with an unusually timely opportunity to bring their products to the notice of their customers. From the particulars available to us at the time of writing this note, there will be many new and interesting items to be seen, in spite of the still-prevailing restrictions and difficulties arising out of the shortage of materials.

Obviously, this issue cannot contain a report of the exhibition, but we can say that our readers will find that the model railway hobby is well represented as regards locomotives and rolling-stock in the smaller scales. Some of the entries in the competition section should be of more than usual interest; they include a 4-mm. scale model of the L.N.E.R. 4-6-4 high pressure compound engine No. 10000; a 4-mm. scale, 18 mm. gauge Midland 4-2-2 engine; a 4-mm. scale Southern Railway "W" class 2-6-4 tank; an 18-mm. gauge South Eastern and Chatham Class E 4-4-0; a 7-mm. scale "Emmet" train; a 10-mm. scale G.W.R. 7 ft. 8 in. single, in which the regulator actually, throws the gearing in or out of mesh; a Midland and South Western Junction Railway 4-wheeled brake-third coach, and, what would seem to be an especially interesting exhibit, a model of the L.M.S.R. mobile testing unit complete with dynamometer car and special tender, in 4-mm. scale.

We are always pleased to see these old-time, or out-of-the-ordinary models, especially if they are really good replicas of their prototypes; and in recent years, *The Model Engineer* Exhibition has contained a number of them. We will publish a description of the more outstanding exhibits, in due course; the exhibition, which will be open from the 20th till the of 29th this month, excluding the Sunday.

Kings Cross Centenary

British Railways, Eastern Region, in conjunction with the British Transport Commission, will be holding an exhibition at Kings Cross station, from October 13th to 18th inclusive, to mark the centenary of the opening of that famous terminus and the establishment of through communication between London and Doncaster.

Examples of ancient and modern locomotives and rolling-stock will be on view at the Milk Depot, while under cover in the G.P.O. Receiving Depot on the west side of the station, alongside the Great Northern Hotel, there will be a collection of models pictures, documents and other relics associated with the history of Kings Cross and the G.N.R.

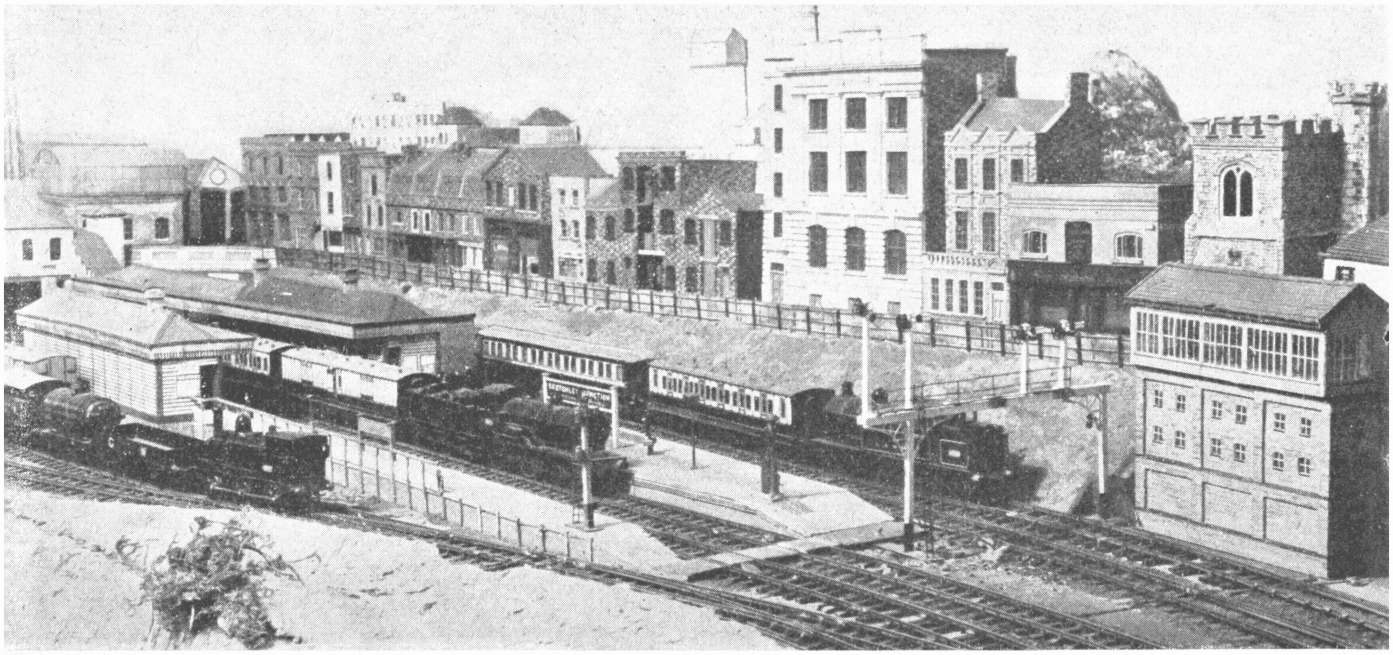
Readers who are interested in the old "Great Northern" should not miss this display; they are almost certain to see something they have never seen before and to have their memories of the old line strongly stirred.

Railroadiana

In their fine Georgian house, at 7, Albemarle Street, off Piccadilly, London, W.1, the National Book League are holding an exhibition of railway books, prints and relics. The exhibits cover publications from the earliest days of railways up to the present time, books about railway history, civil engineering and locomotive history, timetables and guides, and those most coveted railway books, the "Rules and Regulations" books available only to railway personnel.

Many beautiful coloured engravings of early railway scenes are included and a sheet of drawings by G. F. Bird, printed before the first World War, showing 53 G.W.R. broad gauge engines is on show after its recent discovery in the rubble of the publisher's bomb-damaged warehouse. Our only criticism (if it can be called that) is that, for protection, the exhibits are fixed in glass cases open at just one selected pair of pages. We wish some means could be devised whereby the pages could be turned so that visitors could completely enjoy these valuable reference works without risk of damage.

The exhibition is open from 11 a.m. to 5 p.m. on Mondays, Wednesdays, Fridays and Saturdays, 11 a.m. to 8 p.m. on Tuesdays and Thursdays, until November 5th.



IN DEFENCE OF "HO"

by J. K. Nelson (Ilford Junior Railway Club)

CORRESPONDENCE in THE MODEL RAILWAY NEWS about "HO" 3.5 mm. to 1 ft. scale models suggests that interest in this scale is still maintained and I know of one or two modellers who are seriously considering its possibilities. This article is an attempt to describe briefly how to adapt existing parts for this scale.

My L.N.W.R. 3.5 mm. scale model at the headquarters of the Ilford Junior Railway Club has used much standard "OO" equipment, suitably modified.

Track is standard Peco Individulay. The gauge is correct 16.5 mm. The Peco chairs are under size for "OO" and they are not far out for "HO" The rail, of course, is over size but it does not look too bad as seen in Photograph 1 (on the cover of this issue) and Photograph 2.

As standard "OO" track had been accepted, the use of commercial "OO" wheels seemed logical. It is unfortunate that the overscale width is so obvious, but when used for 3.5 mm. scale on track of the correct gauge (16.5 mm.), the total errors are considerably less than when using 4 mm. scale rolling stock on the same gauge. Photographs 1 and 3 being more or less "end on" might be expected to shown things at their best, but Photograph 2 showing part of the junction station and Photograph 4, part of the goods yard and engine sheds, show that the modifications are not too bad. Ken Springate has prepared Fig. 1 to show more

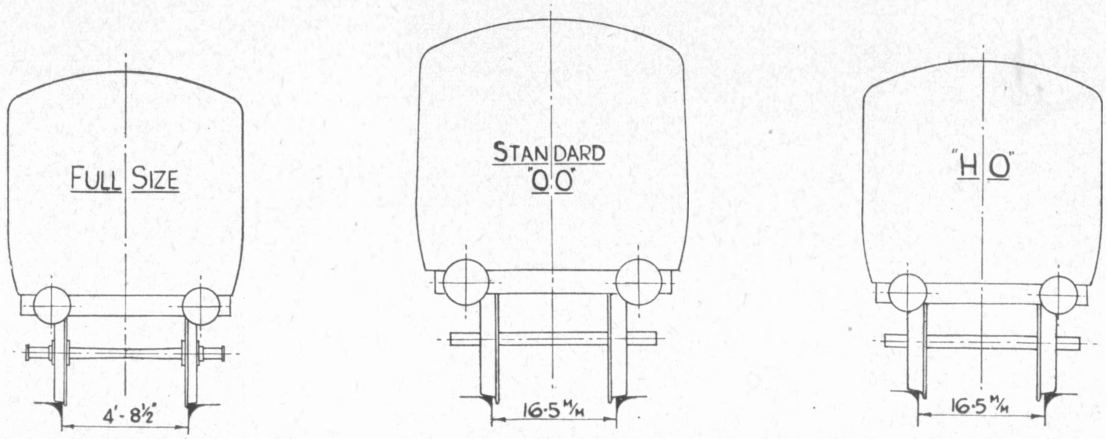


Fig. 1

clearly what is meant. The three coaches are all on 16.5 mm. scale track. The first is a full size coach reduced in proportion, the second is the same coach to a scale of 3.5 mm. to 1 ft., but using standard " OO " wheels. The third is the same coach to " OO " standards. Note that the track gauge in all three cases is identical. The wide wheels look shockingly bad but the drawing purposely shows things from the worst viewpoint. Normally, the models are not inspected close enough for the error to be unsightly, but " OO " rolling stock on 16.5 mm. track always looks narrow gauge, which, in fact, it is. If very sharp curves are necessary, metal can be removed from the inner faces of the solebars to allow for the necessary increased bogie swing. This has not been necessary on my coaches. They all negotiate the curves without trouble.

I hope no one thinks that I am suggesting that this scale is the only right one. There is in our hobby plenty of room for all points of view. No one, therefore, should be offended if encouragement is given to those who are again considering the merits of " HO." Supplies of commercial parts, if not plentiful, are adequate. Let us see what we have. 16.5 mm. track is obtainable anywhere. Standard " OO " motors can be used without alteration. Locomotive wheels are available in a good range of sizes. Coach bogies, until recently, were a bit difficult, but the aero springing unit has solved the problem. Look at Fig. 2. The unit, complete with wheels, is shown at *A*. This is as purchased except for the shortenings. The spring is cut through, overlapped and soldered to give the required wheel spacing. The unit is

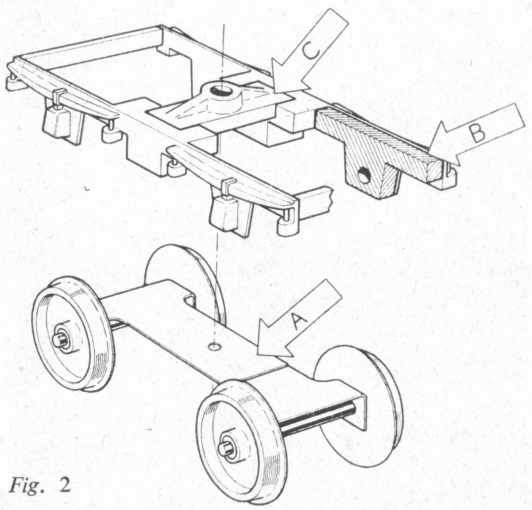
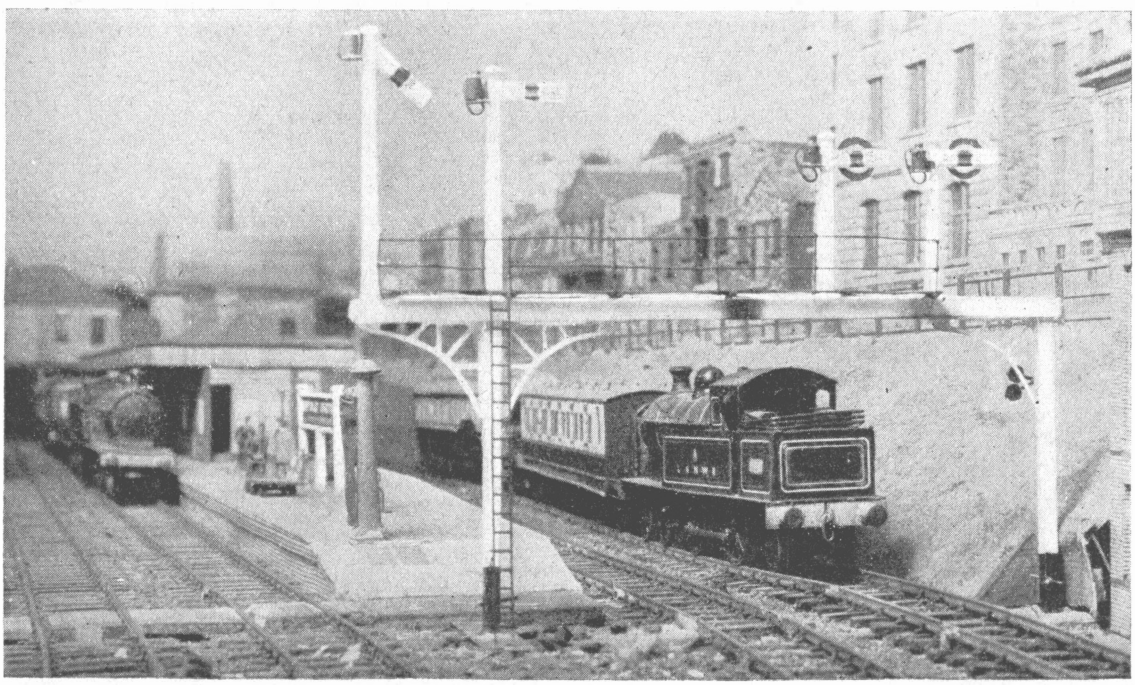
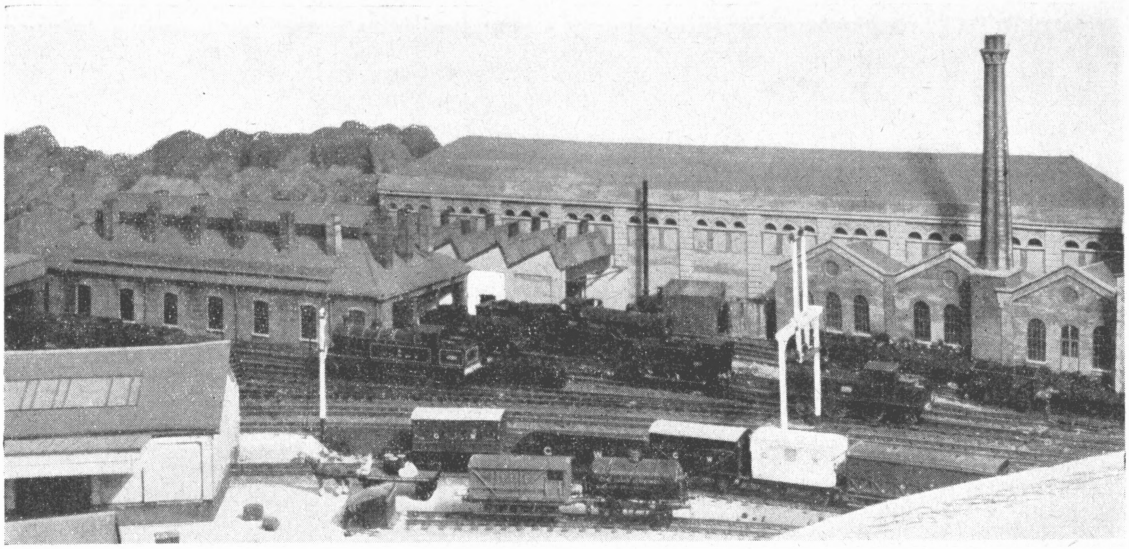


Fig. 2

made for " OO " wagons and has 12 mm. wheels which are the correct diameter for " HO " coaches. Most of my coaches are mounted on 9 ft. 0 in. bogies for which standard " OO " 8 ft. 0 in. bogie sides are used. This makes the wheel spacing 0.5 mm. out, which is not too bad. Luckily, the cast springs are very nearly the correct length for " HO." The axleboxes are not the right shape, but I have not tried to alter them. Metal is filed away as shown shaded by *B*. Nothing of the bearing holes remains so there is no possibility of the axle ends binding. After removing metal from both ends of *C*, the parts can be soldered together in





a suitable jig. Allowing for 0.5 mm. lateral axle play, the castings can be assembled to scale width. After inserting suitable shims between the axle ends and side castings, *A* is soldered direct to the underside of *C*. On the drawing, the pivot hole is shown in *A* but it is best drilled after soldering.

It was my intention to finish by saying that as the model illustrated here is in a room used by members of the Ilford Junior Railway Club, it must be pretty robust, but, without adding a bit more, that remark would be unfair. These lads have been coming since the model's early days and, although we have an occasional accident, the amount of damage done by the boys has been negligible. Much more has been done by older visitors. My big regret is that so few young railway enthusiasts live in the Ilford district, but the few we have do much to increase the pleasure obtained when working together in this grand hobby.

Trevor Leake must be thanked for the photographs illustrating this article and Ken Springate for his help generally and Fig. 1 in particular.

WITH THE CLUBS

Epsom and Ewell Model Railway Club

During our meeting on October 16th, Mr. W. E. Bourne will discuss various problems which occur in the design and operation of electrical equipment especially with regard to the smooth starting and slow running of locomotives.

New members and visitors will be welcomed at our meetings held on the third Thursday in each month, at Pit House, Cheam Road, Ewell.

Hon. Secretary: P. D. McCANN, 115, Elmstead Gardens, Worcester Park, Surrey.

Croydon Model Railway Society

Members meet at the headquarters of the society on No. 1 Platform, Purley Oaks Station, at 8 p.m., on the second and last Wednesdays of each month. Mr. J. Guarnori will bring some models over on October 29th and will give us a talk about them. The meeting on November 26th will be set aside for the preliminary measures in connection with the annual election of officers and committee. No fixture has been made for the month of December.

Hon. Secretary: A. J. C. R. GOODALL, 68, Purley Downs Road, Sanderstead, Surrey.

Birmingham Model Railway Club

All meetings are held at St. Thomas's School, Granville Street, at 6.45 p.m., and the following have been arranged :

October 1st, Wednesday, test track ; 9th, Thursday, jumble sale 16th, Thursday, track construction; 22nd, Wednesday, snags and queries; 29th, Wednesday, track construction.

November 6th, Thursday, " Culm Valley. Prototype and Model." by M. E. Dean; 13th, Thursday, track construction; 19th, Wednesday, film show by Mr. P. B. Whitehouse; 26th, Wednesday, track construction.

December 4th, Thursday, test track; 11th, Thursday, private exhibition and social; 17th Wednesday, track construction and progress report.

Next committee meeting Tuesday, December 9th. Will members wishing to make suggestions please contact any committee member at meetings.

The meeting on November 6th will be given by an out-of-town lecturer and it is hoped that *all* members will make a special effort to attend.

Wimbledon Model Railway Club

Meetings during October will be devoted to a talk on " Modern Motor Transport Coachbuilding," by Mr. J. H. Guarnori, on Wednesday, October 8th, and " Any Questions ? " on Thursday, October 23rd. Meetings, which are held at 32, Worple Road, Wimbledon, S.W.19, commence at 7.30 p.m. Visitors are always welcome.

On Saturday, November 1st, we are holding a small private exhibition and social gathering. Full details can be obtained from the Acting Hon. Secretary: R. C. J. DAY, 68, Chestnut Avenue, Esher, Surrey.

Historical Model Railway Society

The following meetings have been arranged for the latter part of 1952:—

October 20th. Mr. T. S. Lascelles: " A historical review of railway signalling down to grouping."

November 10th. Mr. D. S. M. Barrie, M.B.E., A.M.Inst.T.: " The Railways of South Wales."

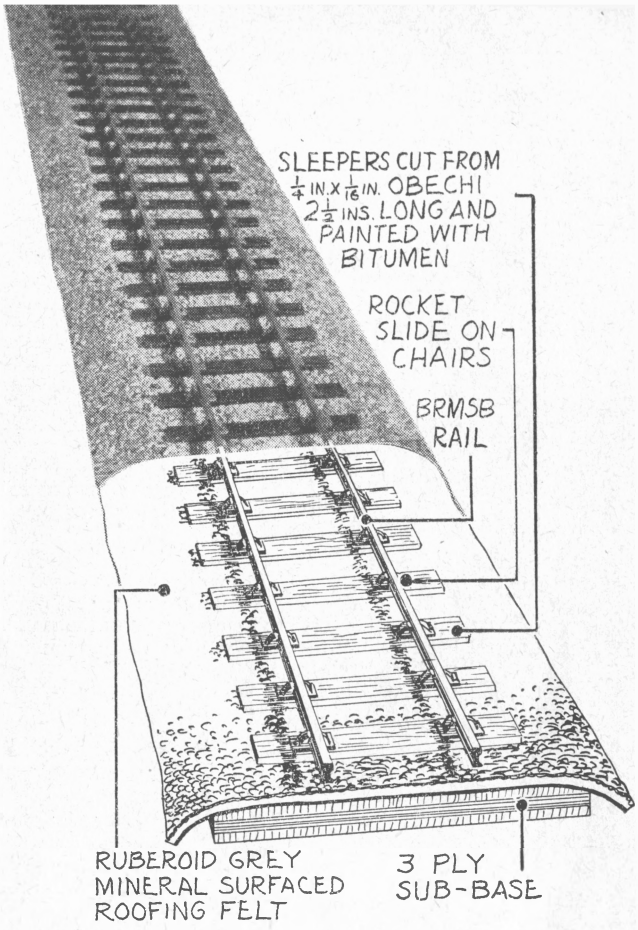
All meetings will be held at the headquarters of the Stephenson Locomotive Society at 32, Russell Road, W.14, and commence at 7.0 p.m.

The Annual General Meeting of the Society will be held at 2.30 p.m., on December 6th, at the Euston Hotel, N.W.1.

Hon. Secretary: A. P. HANCOX, 30, Gillian Park Road, Sutton, Surrey.

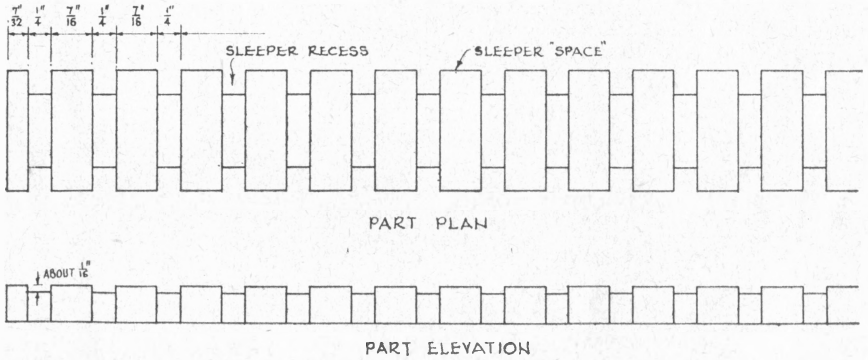
WEATHERPROOF TRACK

by R. E. Gilbert

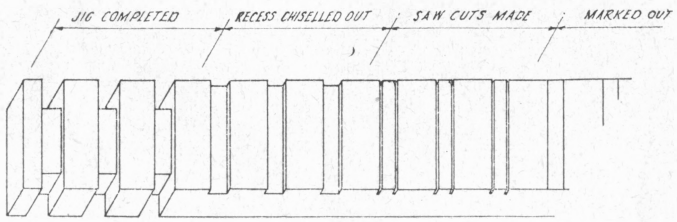


SOME months ago when looking through samples of roofing felts with a friend of mine, he said to me " This type would look good as ballast for ' O ' gauge track." I agreed with him at the time but thought no more about it as I was a " OO " enthusiast then. Since that time, due to domestic rearrangements, I have had to give up the room where my " OO " layout was and, rather than have no line at all, decided to construct an outdoor railway in " O " gauge. This produced problems with which I had had no previous experience, one of them being that of track construction. I wanted the track to be weatherproof and at the same time to look right. Thinking about this I remembered what my friend had said about roofing felt ballast and after some deliberations produced the method described.

The system of construction is quite simple and speedy, requiring a minimum amount of tools and skill. First, a jig must be made. Obtain a piece of hardwood 18 in. long by 1¼ in. wide and about ¼ in. to ⅜ in. thick, and cut out the jig as shown in



Above : *Fig.* 1



Left : *Fig.* 2

Figs. 1 and 2. This should be done as follows:— Mark out for the sleepers, starting at one end with only half a sleeper spacing (in my case 7/32 in., as the space between the sleepers was 7/16 in.) then alternately sleeper width (¼ in.) space (7/16 in.), etc. The lines are then sawn down 1/16 in. and the ¼ in. wide sections chiselled out leaving a recess deep enough to receive the sleepers. When this has been done, about ¼ in. at the end of each sleeper recess must be cut right through to clear the chairs. This then completes the jig.

The next stage is to prepare the sub-base for which I suggest pieces of scrap plywood about ¼ in. thick 18 in. long by 3 in. wide. The top side edges are planed off to form the slope of the edges of the road bed. The sub-base should then be coated with creosote or some other kind of preservative. The next thing to do is to cut out a piece of " Ruberoid " grey mineral-surfaced roofing felt (which can be obtained

(*Continued on page* 218)

"THE MODEL ENGINEER" EXHIBITION, 1952

HERE IS OUR GUIDE TO TRADE STANDS OF PARTICULAR INTEREST TO MODEL RAILWAY ENTHUSIASTS

Bassett-Lowke Ltd., **Stand 22**
16-20, St. Andrews St., Northampton

This stand will incorporate a double road oval track mounted above eye level in the upper part of the stand, on which will run two electric trains throughout the exhibition. The well-known range of "O" gauge clockwork, steam and electric locomotives and equipment will be shown. In the larger sizes there will be a ¾-in. scale 0-6-0 tank incorporating a set of castings available from Bassett-Lowke. All types of boiler fittings, ships fittings and model marine engines will be on show. On the back portion of the stand you can see photographs of the many special scale models constructed during recent years.

Buck & Ryan Ltd., **Stands 19 & 20**
310-312, Euston Road, London, N.W.1

This well-known London supplier will have their usual comprehensive stock of tools of every type for the model engineer, including electric hand tools, lathes, drilling machines, micrometers, chucks, calipers, Vernier height gauges, files, drills, taps, dies, angle plates, etc., most of which will be on show.

Graham Farish Ltd., **Stand 21**
Mason's Hill, Bromley, Kent

The complete range of "OO" gauge equipment produced by Graham Farish will be on show. Latest additions are a three plank and bolster wagon at exceptionally low prices and a Pullman composite coach to match the earlier design of Pullman which proved so popular.

A new design of suburban coaches will be on show. These are bogie vehicles available with bodies finished in British Railways crimson lake, Southern Railway green or L.M.S. maroon.

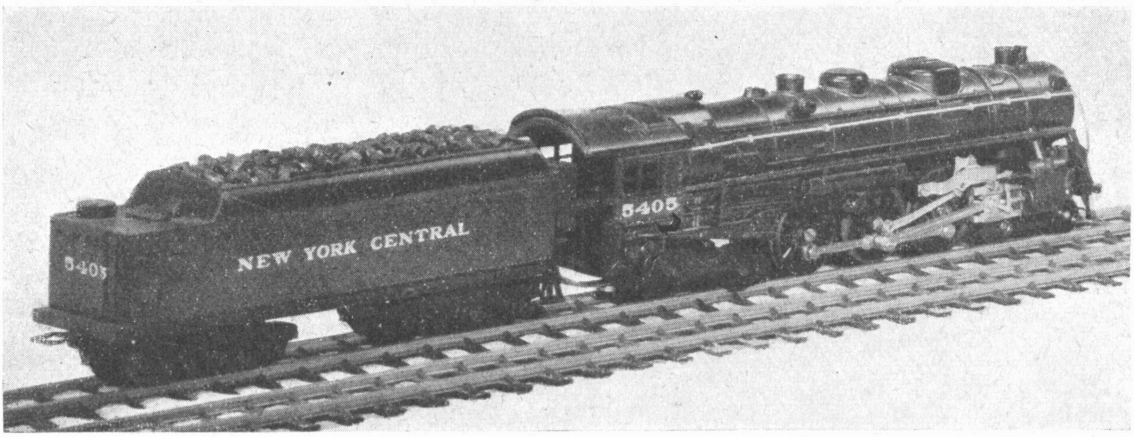
Highlight of the stand will be a "OO" gauge New York Central "Hudson" 4-6-4 type locomotive, No. 5405, produced primarily for the American market, although we understand a small quantity will be released to English enthusiasts. We have had an opportunity of inspecting one of the first models off the production line. It has a fully detailed body casting, full working valve gear and exceptional power. The motor, fitted in the tender, is similar to that fitted to the G.W. "King" and S.R. "Merchant Navy" class locomotives.

Hamblings, **Stand 39**
10, Cecil Court, Charing Cross Rd,
London, W.C.2

All types of model railway equipment for 4 mm. scale, 16.5 mm. gauge can be obtained from this stand. Apart from complete locomotives and rolling stock a comprehensive range of blueprints and die-castings, locomotive bodies in sheet metal, wheels and other accessories is offered for the home constructor. The latest additions to the Hambling-Merco range of rolling stock lithos include standard British Railway coaches and the new Bilteezi series "D" set of country and farm buildings suitable for the lineside will be on show. Look out, too, for the special display of "OO" gauge "Scalesig" signals by N. H. Gillett on this stand.

Kennion Bros. (Hertford) Ltd., **Stand 31**
7, Greenways, Hertford, Herts.

Blueprints and castings for all types of "L.B.S.C." designed locomotives and their own L.M.S. 0-6-0T are available on this stand. Various types of tools necessary for small locomotive construction will be stocked including boring bars, tailstock die-holders, "Pilot" taps for making threads in glands and union nuts and "Stay" taps for cutting true threads on firebox sides. Some



A New York Central "Hudson"—the latest "OO" gauge production from Graham Farish

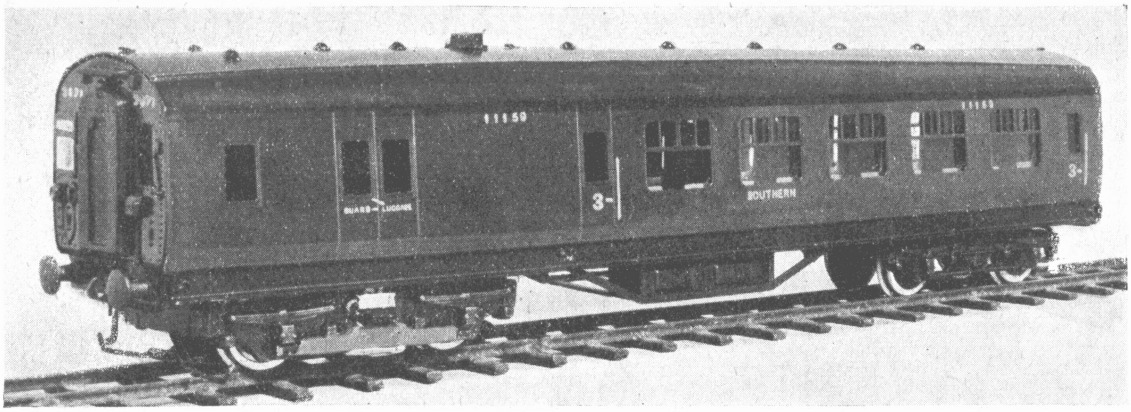


Photo by] [*H. Leslie Overend*

The new Exley "OO" gauge "Portsmouth" electric coach fitted with the "Romford" flywheel motor bogie

wheel castings in the smaller sizes. (Gauges " O " and " 1 ") are available.

E. Law & Son (Timber) Ltd., Stand 4
272-274, High St., Sutton, Surrey

The attraction for model railway enthusiasts on this stand is a scenic layout designed to display the entire range of " Rivarossi " Italian trains in " OO " gauge. These trains were described briefly in THE MODEL RAILWAY NEWS for September, 1951, and are available in different sets, with two-rail, centre third or overhead electrification. " The Red Line " sets, for two-rail, will run satisfactorily on B.R.M.S.B. 16.5 mm. gauge.

In the centre of the railway's baseboard, the unique Rivarossi trolleybus will be operating. This steers itself round corners by the overhead poles and any model railway owner with a road system will find in this trolleybus yet another way of expanding his layout.

Percival Marshall & Co. Ltd., Stands 37 & 38
23, Great Queen Street, London, W.C.2

This is the stand of the Exhibition Organisers and the publishers of this journal. Here visitors can see current editions of *The Model Engineer*, with its companion journals, THE MODEL RAILWAY NEWS, *Model Aircraft* and *Model Ships & Power Boats*. In addition a complete collection of P.M. technical books covering all aspects of model engineering and model railway work will be available for inspection and purchase together with many scale drawings of locomotives and lineside buildings by well-known authorities.

Modelcraft Ltd., Stand 45
77, Grosvenor Road, London, S.W.1

This company offers to railway modellers a number of constructional model-making kits for lineside buildings and other architectural features in 4 mm. scale, in addition to a range of brick papers. Plans are available for several types of road vehicles and workers in the ultra-miniature scales will see some possibilities in the well-known " Micromodels."

Multicraft Tools Ltd., Stand 53
406, Euston Road, London, N.W.1

Our readers who are particularly keen on the use of cardboard and wood as a material for rolling stock will find the " Multicraft " precision cutter of use, with its four differently shaped blades, which are kept in the handle when not in use. Other blades, chisels, files etc., are available for use in the same handle. The new " Multicraft " Miniplane should be of help where fine work is in progress requiring light cuts. This plane is light enough and small enough to be worked with one hand only, leaving the other free to hold small and perhaps awkwardly shaped pieces.

Precision Model Engineering Co., Stands 11 & 14
61, Paradise St., Liverpool

This company will show a comprehensive range from their model-making department including examples of locomotive and steam fittings of their own manufacture. They are agents for Graham Farish equipment and will show a full selection of these trains.

A special feature of " Anorma " model buildings kits will be on display and will cover not only the already well established 4 mm. scale kits but also a new range of similar kits in 7 mm. scale and a number of architectural accessories. The new 7 mm. buildings include some in " low relief " designed by P. R. Wickham.

Dick Simmonds & Co. Stand 17
5, South Road, Erith, Kent

Here is another well-known firm catering for steam locomotive enthusiasts. Their activities include the supply of blueprints and castings for several " L.B.S.C." designed locomotives. They can supply many other castings and steam fittings.

Smeaton-Stuart & Fox, Showcase
41, Ilsham Rd., Wellswood, Torquay, Devon

In this showcase can be seen samples of 4 mm. scale landscapes for use as backgrounds in suitable positions, as well as a number of lineside features which can give that true railway atmosphere to your layout.

Walkers & Holtzapffel Ltd., Stand 3
61, Baker St., London, W.1.

Those of you who are interested in flywheel mechanisms should visit this stand to see demonstrations of the " Romford " " OO " gauge flywheel drive mechanism unit recently put on the market by this company. New this year is a Southern Region " Portsmouth " electric motor coach by Exley's with a " Romford " motor bogie.

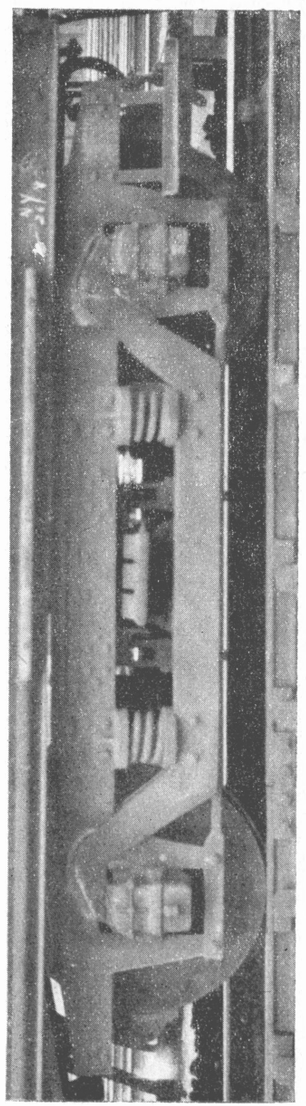
The Gauge " O " Walker-Riemsdyk controlled clockwork can be inspected here and we commend it to those who favour this method of propulsion.

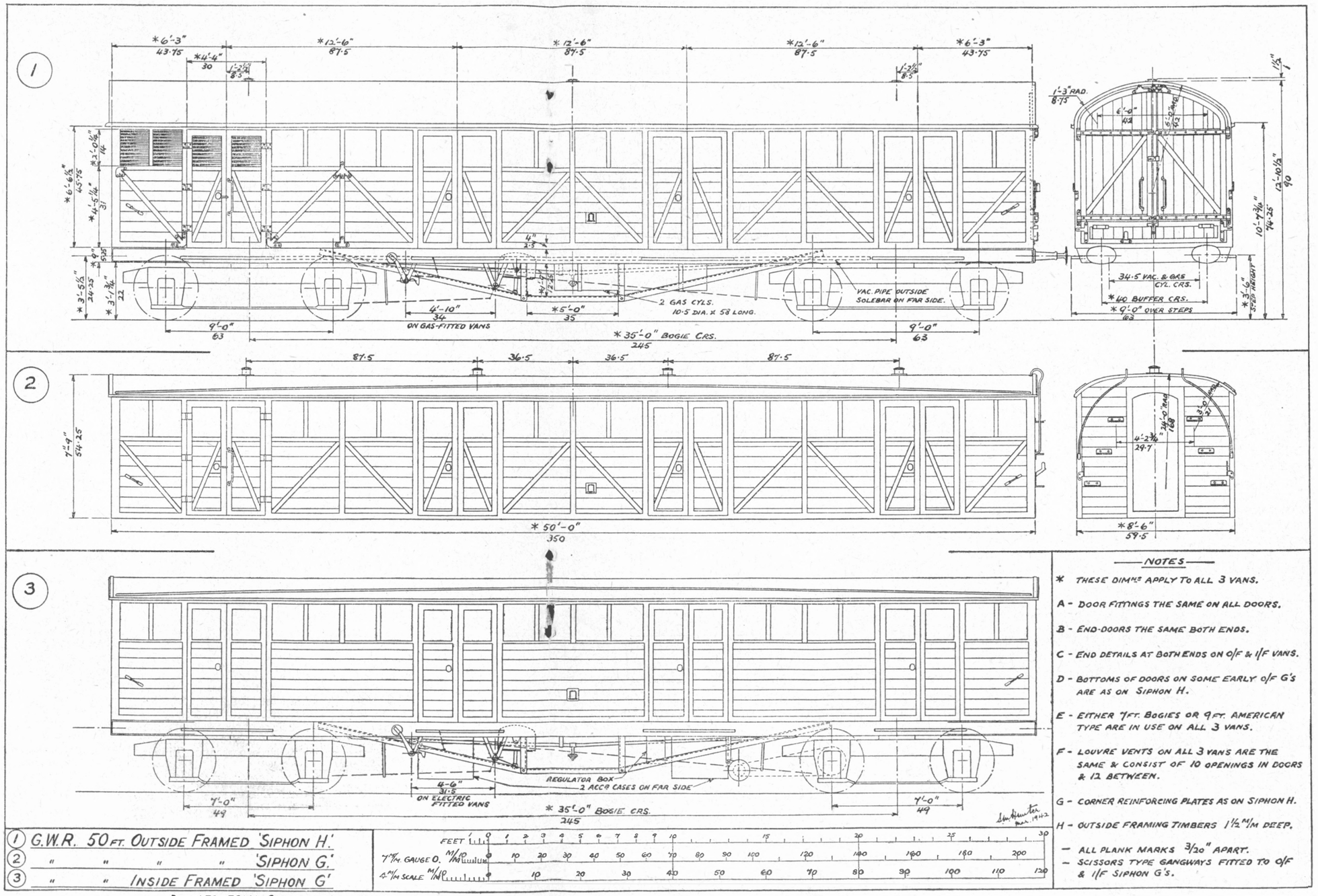
The new W & H catalogue, just out, will be available on the stand and gives details, with many illustrations, of the comprehensive selection of equipment for " OO " and " O " gauge model railways which can be purchased from this company.

THE GREAT WESTERN "SIPHONS"

THREE TYPES DRAWN BY S. M. HUNTER

Below : 9 ft. wheelbase "American" type bogie used on the "Siphons" shown





1. G.W.R. 50 FT. OUTSIDE FRAMED 'SIPHON H.'
2. " " " " 'SIPHON G.'
3. " " INSIDE FRAMED 'SIPHON G'

REDUCED FROM OFFICIAL DRAWINGS.

NOTES

* THESE DIMNS APPLY TO ALL 3 VANS.

A - DOOR FITTINGS THE SAME ON ALL DOORS.

B - END-DOORS THE SAME BOTH ENDS.

C - END DETAILS AT BOTH ENDS ON O/F & I/F VANS.

D - BOTTOMS OF DOORS ON SOME EARLY O/F G's ARE AS ON SIPHON H.

E - EITHER 7FT. BOGIES OR 9FT. AMERICAN TYPE ARE IN USE ON ALL 3 VANS.

F - LOUVRE VENTS ON ALL 3 VANS ARE THE SAME & CONSIST OF 10 OPENINGS IN DOORS & 12 BETWEEN.

G - CORNER REINFORCING PLATES AS ON SIPHON H.

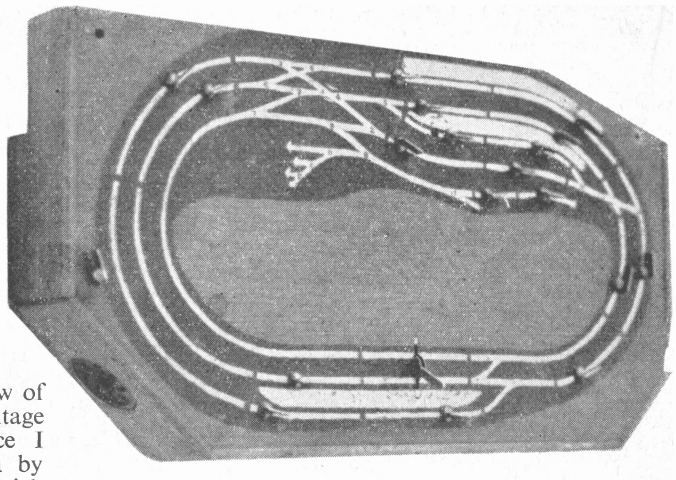
H - OUTSIDE FRAMING TIMBERS 1½ M/M DEEP.

— ALL PLANK MARKS 3/20" APART.

— SCISSORS TYPE GANGWAYS FITTED TO O/F & I/F SIPHON G's.

SECTION SWITCHES

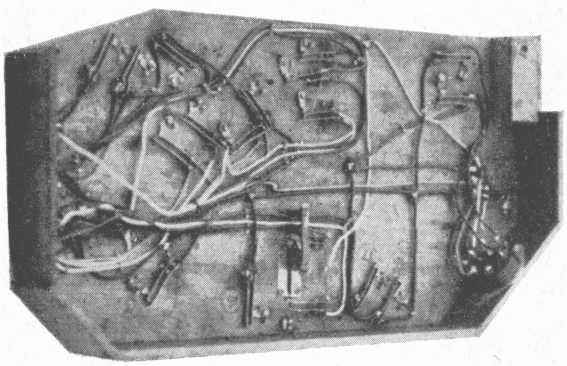
An economical and effective method of construction described by D. A. Williams



General view of completed diagram board

MY first section switches consisted of a row of home-made levers and some low voltage tumbler switches, but after some experience I found that to try and find the right switch by algebra and squaring the circle was not quick enough when *Sir Ironside* (really *Sir Tinplateside*) was approaching a blocked section at about 90 m.p.h. Dazzled by visions of the route relay boards at Thirsk, etc., I decided to have all the switches mounted in their correct positions on a painted diagram of the track. Here was problem No. 1. Most commercial switches were too large both in size and price. About a penny a switch was my limit ! After a bit of head-scratching the following method was used and the whole board cost about a shilling. It has been in use for about twelve months without any faults developing.

A piece of seven-ply was obtained large enough for a complete painted diagram of the track with about $\frac{1}{2}$ in. to $\frac{5}{8}$ in. between the painted tracks. The diagram was painted first, leaving breaks in the lines at the end of sections. Next came the switches. Brass 1 in. roundhead screws size 6 or 8 were used and inserted in a hole (not too loose) bored in the ply on the section they switched out. Little flat knobs (see *A*, Fig 1) were cut from 20-gauge brass



Rear of diagram board showing arrangement of wiring

and soldered in the screw slots. Piece *B* (the cam) was then soldered to the underside of the screw. Contacts *C*, of phosphor-bronze or spring-brass were then soldered to trackpins inserted in the underside of the ply-board (see Fig. 2). The cam action of piece *B* should close the contacts when the switch knob is parallel with the painted track. Two stop pins (brads) were inserted (Fig. 2) to limit the movement of the switch and give a positive " on " and " off." A little care was needed in placing the switches to ensure there was room for the contacts on the underside. However, the contacts may be placed at any angle and made to close with the switch knob in line with the track diagram by moving the cam *B* in relation to the screw. It was found advisable to place a piece of thin metal under the contacts *C* when soldering to the trackpins to allow them to ride clear of the ply-board.

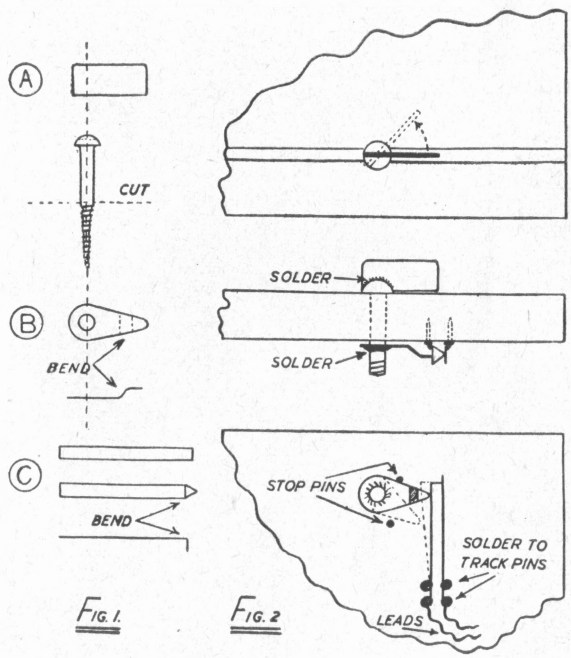


FIG. 1. FIG. 2

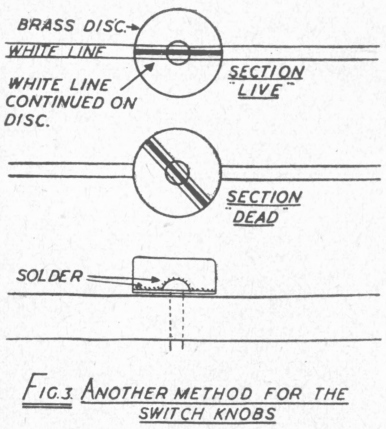


FIG. 3. ANOTHER METHOD FOR THE SWITCH KNOBS

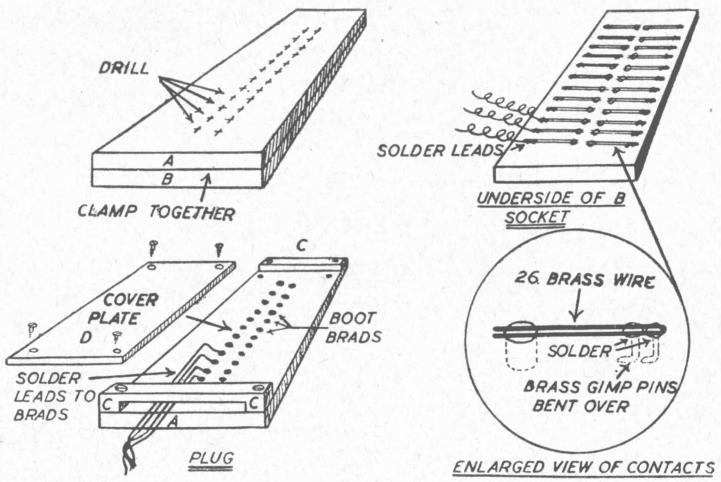
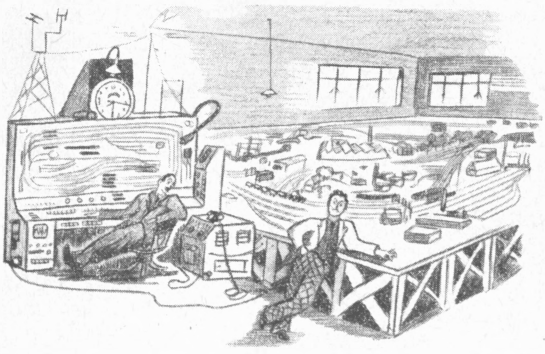


FIG. 4. MULTI-POINT PLUGS AND SOCKETS

When running, a quick glance to see all the switches are in line proves the road is live all the way and the soup will not be spilt in the diner by running into a dead section.

Fig. 3 shows a more complicated, but clearer type of switch knob. I have made a small board for my locomotive yard using this type and call it my ghost board or " visible deads."

Having proved by experience that solder will not defy the laws of gravity by running uphill (anyone who has stopped a piece of molten solder with the end of their nose will agree with me), I now connect all control units to the baseboard with some kind of plug. It is very convenient to be able to unplug and turn the whole lot over for repairs. Old valve bases are useful, but rather limit the number of pins. For my unit I have made a 24-pin plug using brass boot brads.



" . . . Well, as I was saying, this control scheme of mine took me five years to work out and construct. There's 22½ miles of wire, 329 relays, 5,456 soldered connections and five independent power units. With this equipment, I can work 25 trains at once. Of course, at present I've only got one loco and five goods wagons but . . . "

Two pieces of thin wood or ⅛ in. ply 10 cm. by 4 cm. were cut and temporarily pinned together (see Fig. 4). A drill was selected that would bore a force-fit hole for ½-in. brass boot brads and holes drilled at 6 mm. centres right through both pieces. An irregular arrangement of the holes was found advisable to ensure the plug being inserted right way up. The two pieces were then separated and the holes in one piece enlarged to clearance size for the brads. This piece (*B*, Fig. 4) formed the socket. Brads were then tapped through the force-fit holes in piece *A*, the plug, and end pieces *C* glued on. The leads were soldered direct to the brad heads and brought neatly to the end of the plug and formed into a flexible lead. The cover plate *D* was then screwed on to hide the wire and hold the brad heads down. Next a twin row of fine brass gimp pins was inserted down each side of the other piece of wood, each pair in line with a hole. The heads must be on the underside and the points riveted over. If thin wood is used it would be advisable to drill fine holes first, to avoid splitting. Next some 30 mm. lengths of 26-gauge brass wire (Acro) were cut and bent in half, *a la* squashed hair-pins (the wife's Kirby grips will not do). These wires were soldered to the heads of the gimp pins, one centrally over each hole. I then held my breath and pushed the plug in the socket. Fortunately for the ears of my household the point of each brad neatly divided the brass wire as it came through. The socket was then screwed on to the board and the leads attached. This was done with the plug inserted to keep the brass contact wires in place during the soldering.

One final note of warning. Use some form of colour code when connecting to facilitate fault finding. I used a different colour wire for the power from each of my controllers. The effect of the different colours can be seen in the second photograph.

RAILWAY TOPICS

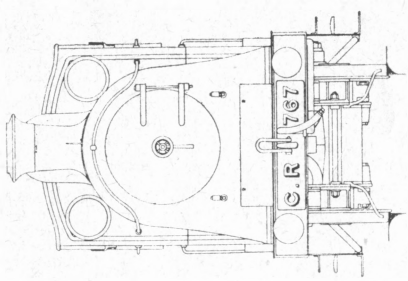
by J. N. Maskelyne, A.I.Loco.E.

Caledonian Railway "766" Class

IN 1896, Mr. John F. McIntosh, who had then been Locomotive Superintendent of the old Caledonian railway for rather less than twelve months, introduced his "Dunalastair" class of 4-4-0 express passenger engines; they were numbered 721 to 735, and they won considerable celebrity in a very short time. These fifteen engines were almost exactly the same design as the previous 4-4-0 engines built by Mr. J. Lambie in 1894, which, in turn, were very similar to the basic design of Dugald Drummond ten years previously.

McIntosh, however, provided a somewhat larger boiler and added $\frac{1}{4}$ in. to the diameter of the cylinders, alterations which seem to have had the effect of markedly improving the performance of his engines when compared with that of the earlier ones. It seems that the "721" class was something of a try-out, because within the next twelve months, McIntosh brought out the first six of his "766" class, followed by nine more in 1898. These were the first true McIntosh express passenger engines on the C.R., and magnificent engines they were! The boiler was the same size as that of the "721" class, but had more heating surface and the pressure was raised from 160 to 175 lb. p.s.i.; at the same time, the cylinder diameter was increased to 19 in., which was $\frac{3}{4}$ in. more than in the "721" class. Such modifications as these could only have the effect of further enhancing the power, and it was really from these engines that McIntosh began the steady and rapid development of the 4-4-0 type that took place during the next twelve years.

I shall always regret that I never had the opportunity of knowing these "766" class engines or sampling their work when they were in their prime. I always admired them from photographs and considered that, for sheer neatness of line and perfection of proportion, they were hard to match. Later on, when I was able to study the drawings, my opinion remained unshaken, and it is still the same today. And if there has been any other class



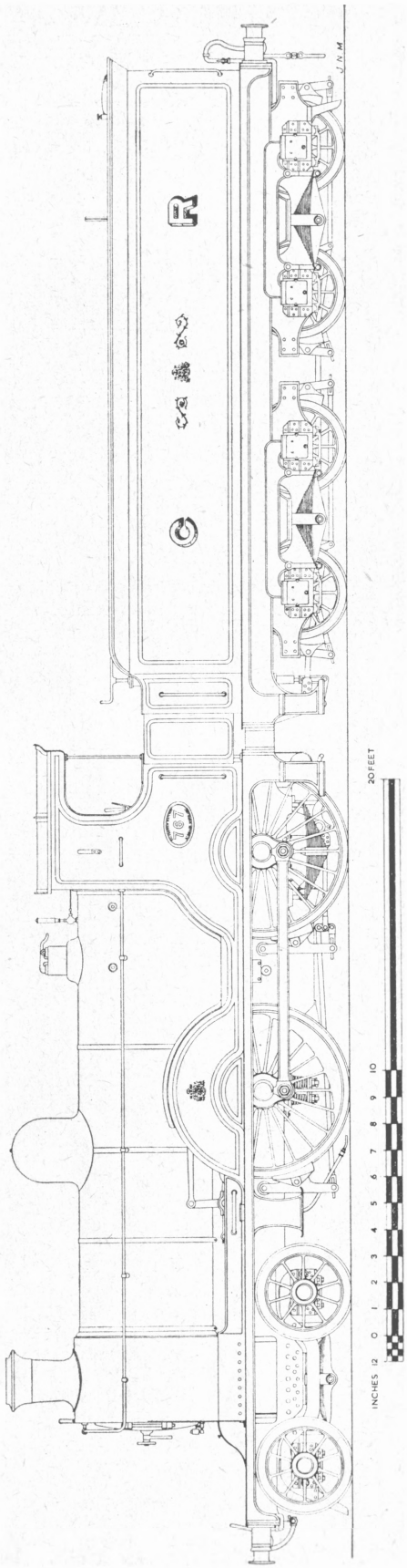


Photo by] [*M. W. Earley*

of locomotive which more perfectly exemplified the old tag that " handsome is as handsome does," then it has never come to my knowledge !

Their work was as good as their looks, and I have an idea that, although all McIntosh's later 4-4-0 engines were excellent and marked a definite and progressive development of the type, he never again scored *quite* the same degree of success as he did with the " 766 " class, taking everything into consideration. The engines established themselves immediately in widespread popular favour and they have been frequently modelled. Two of them were named, No. 766 being *Dunalastair 2nd*, and No. 779 *Braedalbane*; but all were painted in the wonderful blue livery that was so conspicuous a feature of the old Caledonian's express engines. A very fully detailed description of this livery was published in *The McIntosh Locomotives of the Caledonian Railway*, by A. B. MacLeod, as well as in an article by the same author published in THE MODEL RAILWAY NEWS, September, 1944; so I will not repeat it all here, as I certainly could not improve upon, or add to, my good friend's meticulous details.

The principal dimensions of these fine engines were: Diameters of wheels, bogie 3 ft. 6 in., coupled 6 ft. 6 in. The wheelbase was divided into: 6 ft. 6 in. plus 7 ft. 7 in. plus 9 ft., totalling 23 ft. 1 in. The boiler diameter was 4 ft. 8 in. outside the smallest ring, and about 5 ft. 0½ in. outside the cleading; this, at the time, was the largest boiler diameter in Britain. The centre-line was 7 ft. 9 in. above rail level.

The leading overhang was 2 ft. 1 in. and the rear one 3 ft. 9 in. The width over the footplate was 7 ft. 9 in., and over the cab 7 ft. The buffer beams were 7 ft. 8 in. long, and the buffer centres were 5 ft. 8 in. apart.

The tender was an enormous affair of 4,125 gallons capacity, and was carried on two handsome 4-wheeled bogies. Its total wheelbase was 26 ft., each bogie had a base of 5 ft. 6 in., and the bogie centres were 11 ft. 3 in. apart. The trailing overhang was 3 ft., and the wheels were of the same diameter as those of the engine bogie, viz., 3 ft. 6 in. The body was well rounded at the back corners, the radius of each being 6 in. The total length of engine and tender was 57 ft. 3¾ in.

One characteristic little peculiarity I must not forget to mention is that the front drawhook of the engine was usually in the upward position.

Another S.L.S. Special

Encouraged by the success of their " Bulldog " special to Swindon last year, the Stephenson Locomotive Society (Midland Area) this year organised a similar trip.

This time, however, the route was different and the engine was No. 2920, *Saint David*, actually the last of the original " Saints " to remain in service, though with (at the time of writing) one " Lady " and eight " Courts," there are ten of these 2-cylinder 4-6-0 engines still at work. Indications are that all will have been withdrawn by this time next year.

In its prime, the class consisted of no fewer than 77 engines which were numbered 2900 to 2955, 2971 to 2990 and 2998; their names were made up of " Ladies," " Saints," " Courts, " characters from Sir Walter Scott's novels, one G.W.R. locomotive superintendent and a selection of G.W.R. directors. They were excellent engines, second only to the wonderful " Star " class which, virtually, were a 4-cylinder version of the same design. My own recollections of the " Saints " would fill many pages of THE MODEL RAILWAY NEWS; for I can well remember the rather horrified feelings aroused by No. 100 (later 2900, *William Dean*) when that engine first appeared in February, 1902. A lot of people, including myself, thought her a real nightmare of an engine ! But, oddly enough, we soon got used to her and she gradually came to be an object for admiration, when her undoubted capabilities had been recognised.

Eleven years later, the class was complete, 77 express passenger engines with an enviable reputation for speed and power. Now their days are numbered, but their memory will linger for just so long as locomotive history means anything to anybody.

The S.L.S. did well in organising the " Saint " special; true to the Churchward tradition, *Saint David*, in spite of her 45 years of age, treated her fans to some thrilling bursts of 70-75 m.p.h., *not* all of them downhill, either !

Aluminium Stock

The latest stock for London Transport is of interest in that the bodies are built of aluminium alloy, in an attempt to lighten the weight without reducing mechanical strength.

Externally, the new vehicles are similar to their immediate predecessors so familiar on trains running over the old Metropolitan and District lines, and all except one are finished in the bright red livery. The exception, however, strikes a novel note in being left unpainted, except for a red band 3 in. wide, all round the body just below window level. The only other touches of colour on the body are the familiar " London Transport " transfer and the number. Underframes and running gear are painted black.

I cannot make up my mind whether I like the look of an unpainted railway vehicle; it tends to give the impression of having been turned out before being properly finished ! On the other hand, if a plain aluminium surface will stand the English climate without becoming unsightly, and offers an opportunity for lessening the work of cleaning, then there will be, presumably, a welcome reduction in the yearly bill for paint. This, alone, would more than justify the general adoption of the new idea.

And now, before somebody writes to tell me that the idea is not new and has been in use successfully on certain trains in America, I would add that I am well aware of this; but those trains do not have to battle with the English climate !

A Correction

I have received a letter from Mr. V. Murray, who is a qualified driver at Brighton Locomotive Dept., and a regular reader of the " M.R.N.," who tells me that the unfortunate engine in the Midhurst subsidence described in my July notes was not No. 32540, but No. 32522.

Mr. Murray also states that the damage sustained by the engine was rather more than slight; almost every fitting in the cab was melted away, so great was the heat of the fire that burned for the best part of a week. But, in spite of this damage, Brighton Works staff made the engine new in a very short space of time, and to everyone's surprise, she was soon in service again.

I am much obliged to Mr. Murray for this information, and have much pleasure in publishing it as a correction to my previous note.

WEATHERPROOF TRACK

(*Continued from page* 209)

from most builders' merchants to order) 18 in. long by about $3\frac{1}{2}$ in. to 4 in. wide, which is placed on the sub-base. Fix the jig in position on this with the sleeper recesses face down. The sleepers can be cut from $\frac{1}{4}$ in. by $\frac{1}{16}$ in. obechi, coated with the same preservative used for the sub-base and then slipped into the recesses under the jig and lined up with a straight-edge. A length of rail that has previously been threaded with the requisite number of chairs is then placed alongside the jig and pinned every third or fourth chair with a pin that is long enough to pass right through the sub-base and be clinched over to prevent lifting. The remainder of the chairs are then fixed down with small " lill " pins and the other rail is dealt with in exactly the same manner. Remove the jig and fix the inside portion of the chairs (between the rails) in the same manner as the outside. All that now remains is to paint the rail and chairs rust colour and electrify as desired. If " two-rail " is being used there is no further electrification needed. For curved track a jig to the same pattern is made except that it is cut to the required radius with the sleeper recesses set radially.

Although I am using fine scale track parts, the above method of construction can just as easily be used for coarse scale standards and, if you like, the sub-base may be omitted and the " ballast " laid direct on to the base board. Visitors to this year's " Model Engineer " Exhibition can see track with this type of ballast on the stand of The Model Railway Club.

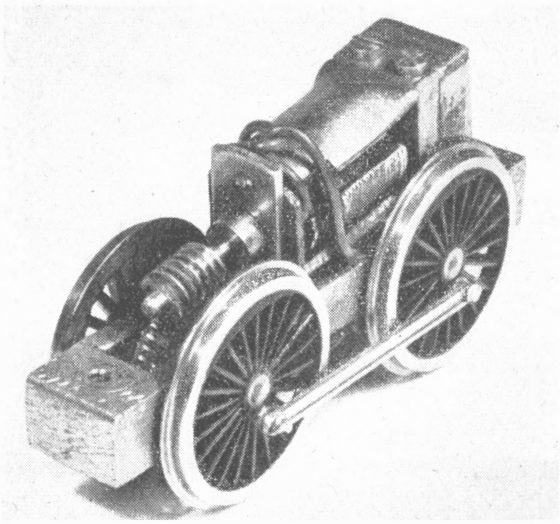
Talking Shop

FROM GEORGE E. MELLOR, of Rhos-on-Sea, I have received a sample of the new Gem X3 " OO " gauge 2-rail mechanism which can be obtained from them and ERG (BOURNEMOUTH) LTD., or from their retail stockists. This mechanism, as the description implies, incorporates the Zenith X3 motor (ratio 40 : 1; 3-pole armature) which is now too well known to need further description.

A leaflet describing the mechanism is available which includes a list showing various combinations of wheelbases and wheel diameters and the types of locomotives for which they are suitable. This list is a most interesting idea, useful to all 4 mm. scale enthusiasts. GEM are standardising five different wheel sizes, and 16 different wheelbases which cover 56 types of locomotives in the list, but other spacings for a further 21 types can be supplied to order at an extra cost of 6s. 1d. The B.R.M.S.B. wheels fitted have plastic spokes with brass tyres and flanges, nickel-plated. Six-wheel mechs. will negotiate at least a 3 ft. radius curve with flanges on the centre pair of wheels.

The unit comes complete and ready to install in the locomotive. Everything is wired up and the two-rail pickups bearing on the backs of the flanges, seem most effective. The sample sent to me was accompanied by the makers' usual guarantee that the mechanism " is powerful, controllable at all speeds down to a crawl and...self-starting in each direction in all positions of the armature." These claims I found were generally borne out except that the mechanism has a slightly poorer performance when running backwards, due I think to the different direction of thrust on the armature shaft, which has about 1/32 in. endplay. When running backwards, the thrust on the shaft is towards the brushes, which bear on a disc type commutator, and this thrust balances itself against the springs of the brushes, causing the armature shaft to shuttle back and forth to the amount of the endplay. In spite of this, the mechanism runs quite freely and quietly, but the endplay should be reduced.

GEM mechanism for L.M.S. 2P or Compound 4-4-0. 27 *mm. diam. wheels*, 38 *mm. wheelbase. Length of this frame is* 80 *mm.*; *distance apart of screwholes is* 69 *mm., centre-to-centre*; *highest point of mechanism* (*over the rear wheels*) 40 *mm. above rail level.*



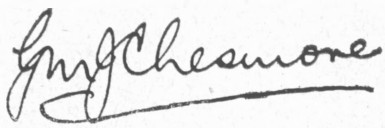
The brushes are less accessible than those on some other mechanisms and the makers ask that the GEM mechanism should be returned to them when brush replacement is necessary. The charge for renewal is 3s. 6d. including postage. This arrangement will no doubt be irksome to the skilled enthusiast who is capable of carrying out his own repairs, but on the other hand, it is a good thing from the point of view of the novice, who might attempt the replacement and cause some damage through his inexperience. Some people will be sorry to see that the " ' OO ' gauge rail " type of coupling rods have been used, but I suppose that to fit scale ones would considerably increase the overall price. As it is, the mechanism is available at the lowest possible price to everyone, and those who *must* have scale rods can make and fit them. My own general impression of the GEM mechanism is that it is a quiet and sweet running job with ample power. It will be interesting to see how it can stand up to long service.

Edward Exley (Sales) & Co. Ltd.

With reference to my remarks on page 178 of the August issue about the new Exley bogies, the ordinary G.W.R. type bogie should be added to the list given. These new bogies will not now be fitted to Exley coaches but are available for purchase separately. The price of " O " gauge coach gangways *only* has been reduced.

Points with Flat-bottom Rail

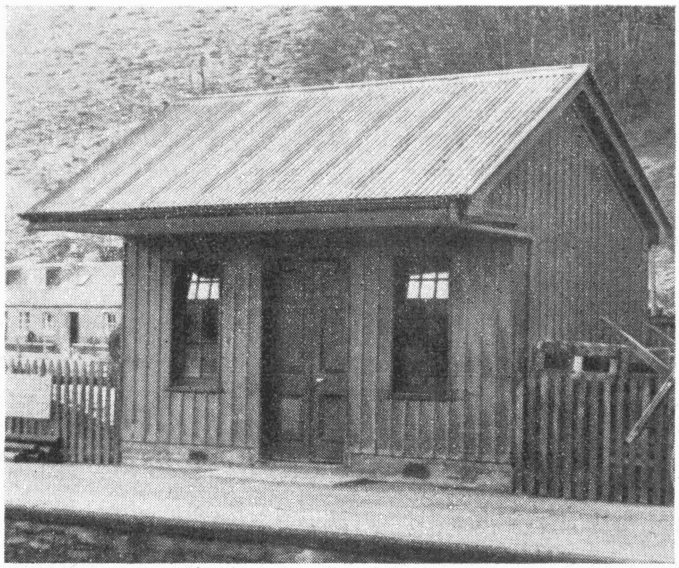
THE HOBBIES SHOP, Frizinghall, Bradford, is producing a flat-bottom 3 ft. radius 2-rail turnout for 16.5 mm. gauge using nickel-silver rail soldered to metal inserts in fibre sleepers. A similar point is available with bullhead rail but in connection with the flat-bottom sample submitted, which is 9 in. long overall, I am pleased to see that the correct flat-bottom practice with regard to the lead in of the check and wing rails has been observed. Instead of the whole rail being bent, it is left straight and the lead in has been filed away to the necessary angle, giving that very characteristic look to the point. Having followed the prototype thus far it is puzzling to find that the manufacturers have soldered the two blades at the heel end to a metal plate which is pivoted to a sleeper—unnecessary for the free working of the point so far as I can see, knowing the springiness of nickel-silver rail. The throw of the blades is 5/32 in.—a wee bit too much—$\frac{1}{8}$ in. is ample. (I'm using $\frac{1}{8}$ in. throw in Gauge " 1 " and that's about twice prototype throw !) The gauge is not quite as consistent as I would like and there are one or two slight misalignments between different sections of rail, but I must temper these remarks by saying that the pivot of the point blades is not at all obtrusive, the point is strong and the " flat-bottom " characteristics are well reproduced. Further, on test the point behaved itself very well and for all practical purposes it is efficient.



GARVE STATION, HIGHLAND RAILWAY

by H. S. Orbach,

A.R.I.B.A.



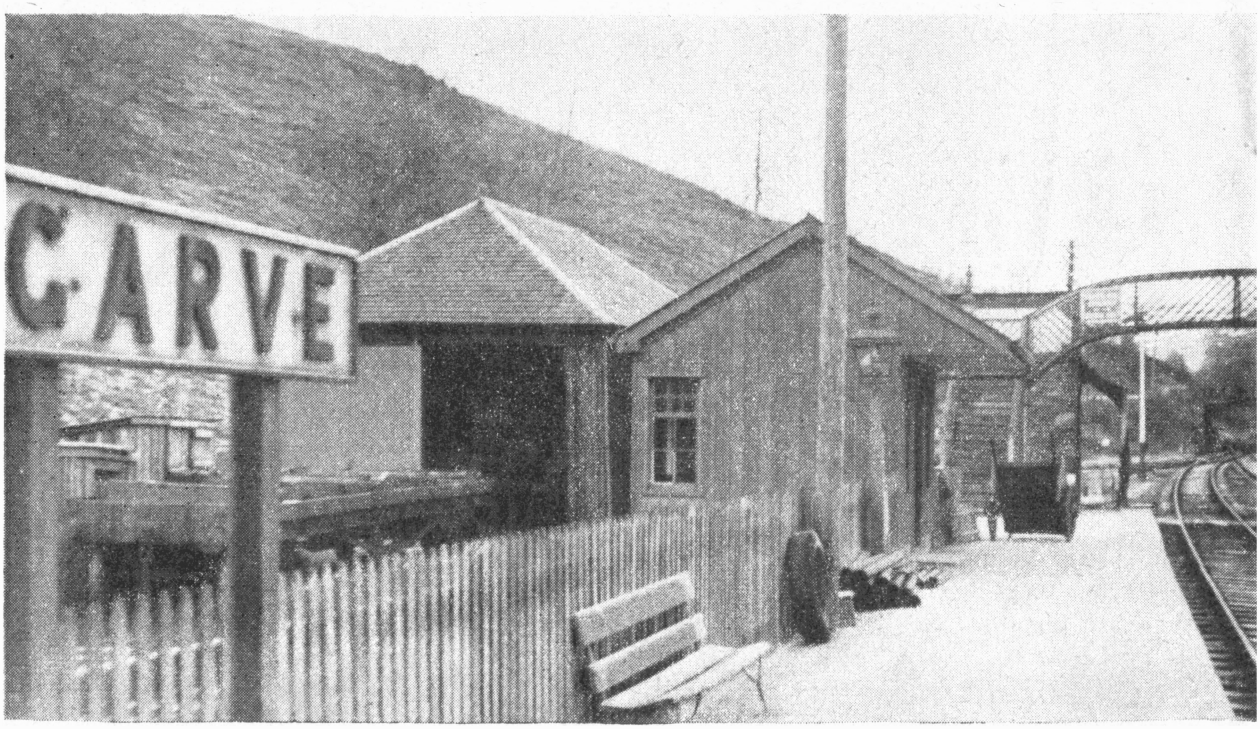
Right : Waiting room on down platform

GARVE'S two signal boxes are both constructed to conform with standard Highland Railway practice. They are manned only when a train is about to enter the sections at Achterneed or Achanalt and for this reason no heating is provided. The two boxes follow similar details, but the east box is slightly higher off the ground. A straight flight of nine steps gives access to the balcony and timber porch. A 6 ft. 6 in. × 2 ft. 5 in. door opens into the lever mechanism room below the box. The door into the cabin itself consists of two panels and a large glazed panel divided into four panes. The station nameplate is 2 ft. 10 in. × 11 in. overall, with 6½ in. high raised letters. The east box has a sixteen-lever frame, the west box twelve. Roofing in both cases is of corrugated iron, with cast iron gutters and 2 in. diameter rainwater pipes.

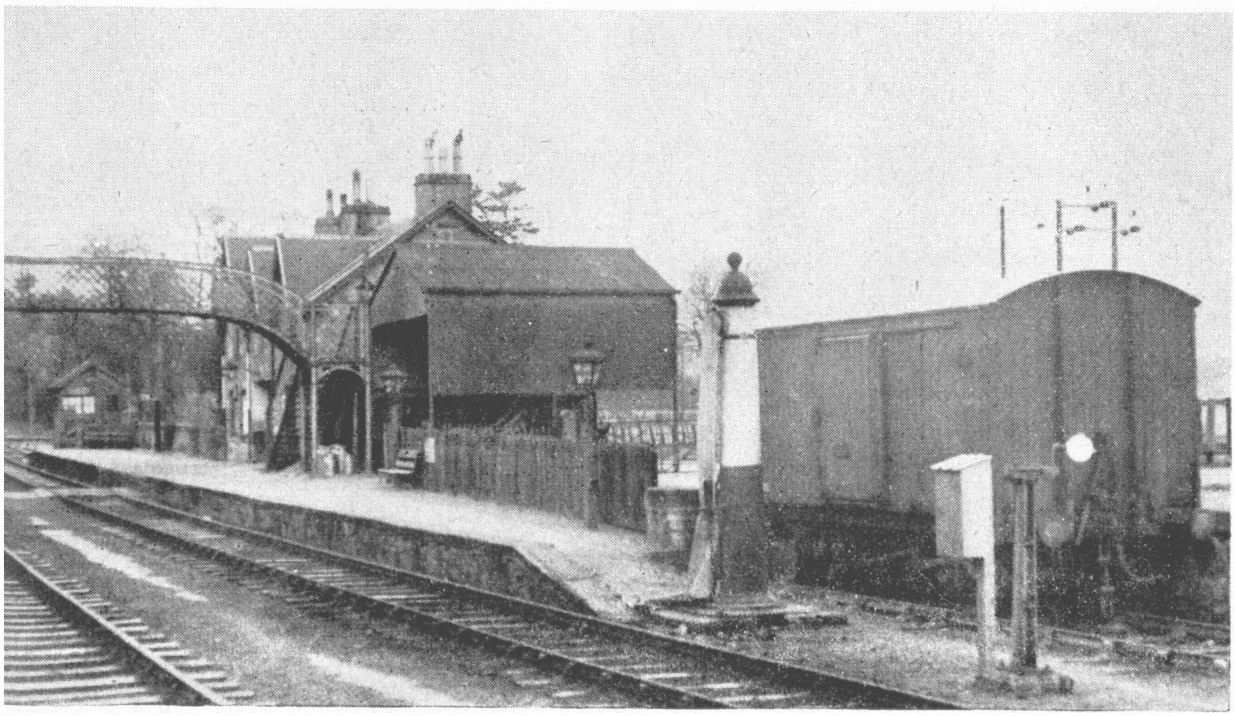
When the " down " platform was built, a small waiting room was provided. This building also is of Highland Railway standard construction and should prove a straightforward job of modelling. Roofing once again is corrugated iron and the soffit of the overhanging portion is boarded, lengthwise, with 3 in. wide boards.

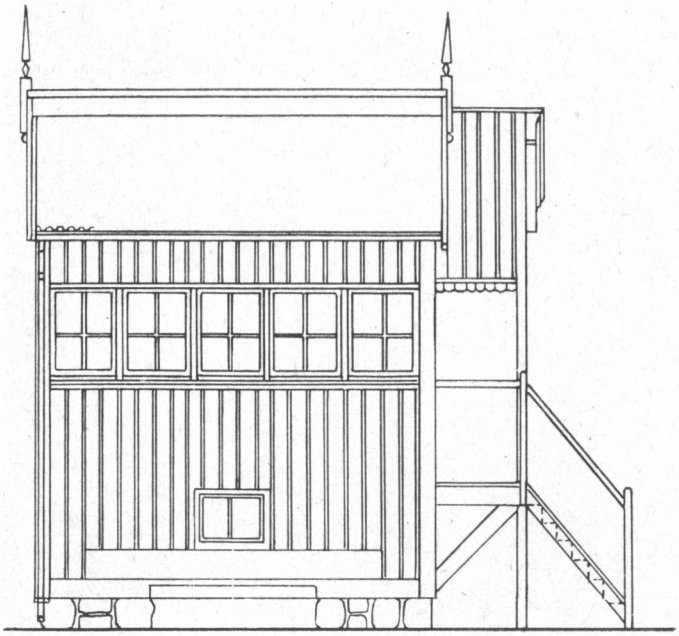
Continued from page 189, THE MODEL RAILWAY NEWS, *September*, 1952.

(*To be continued*)

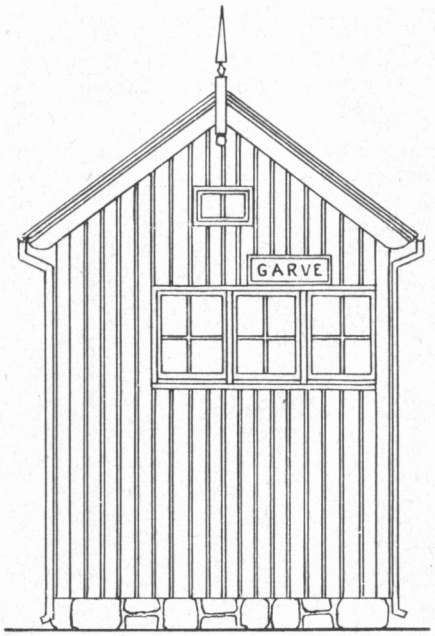


Below : A general view of Garve station

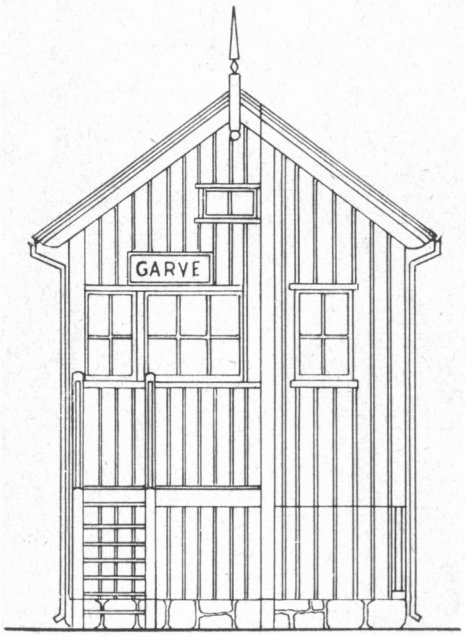




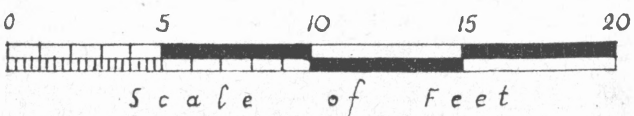
SOUTH ELEVATION



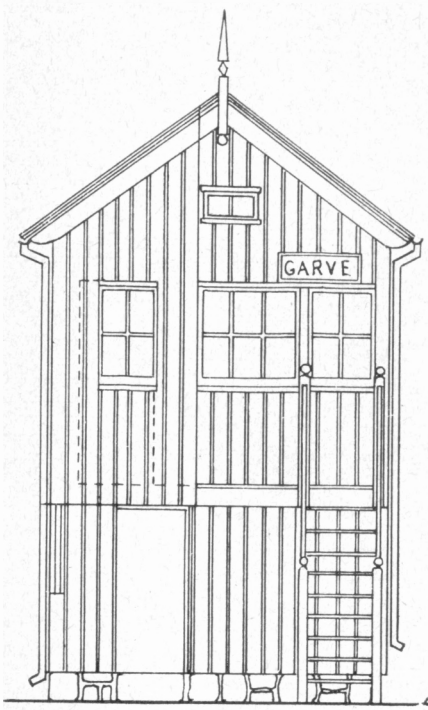
WEST ELEVATION



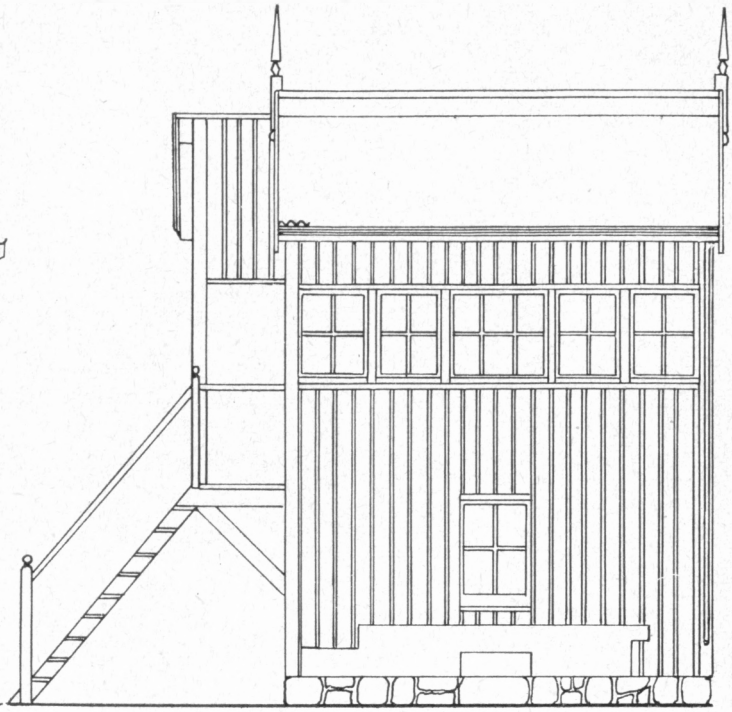
EAST ELEVATION



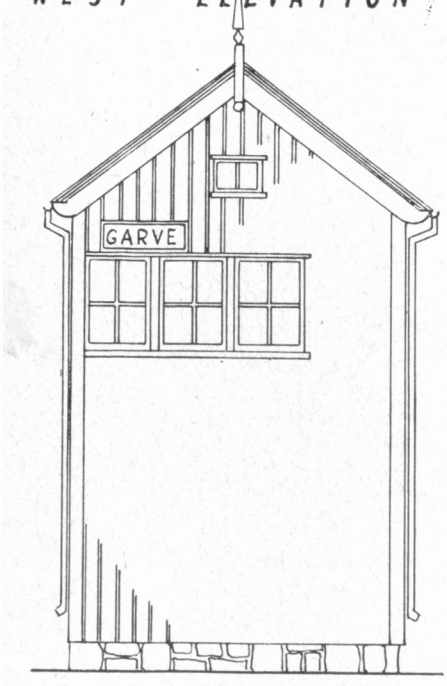
Signal box at west end of station



WEST ELEVATION

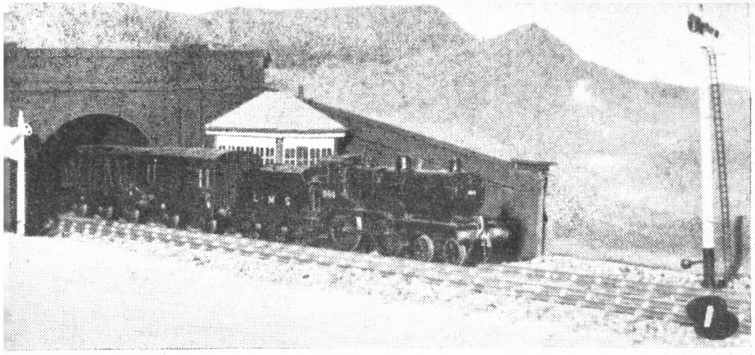


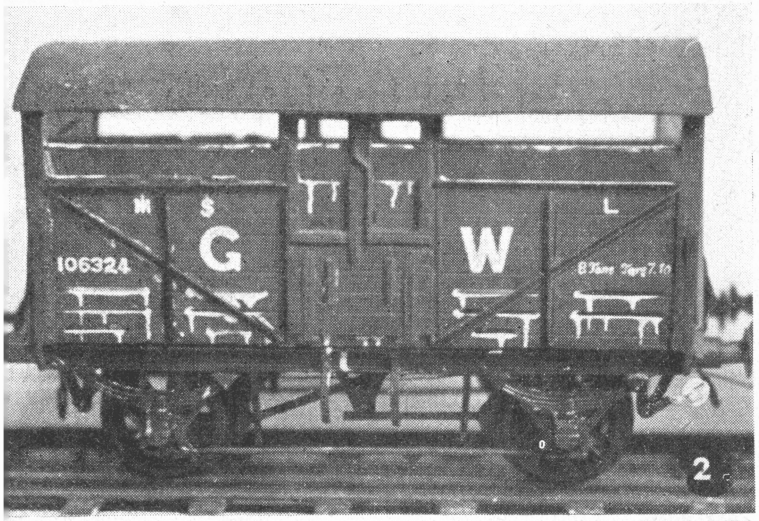
SOUTH ELEVATION

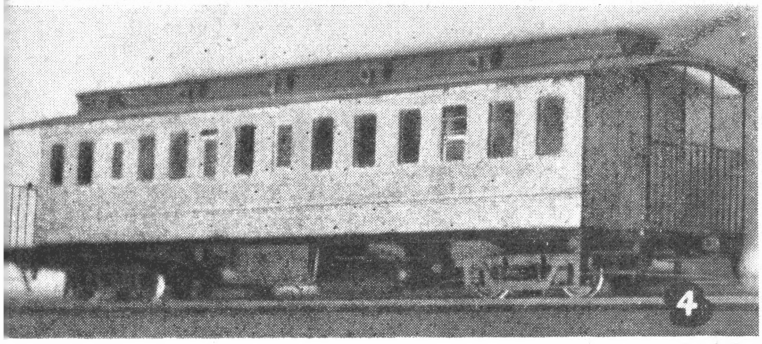


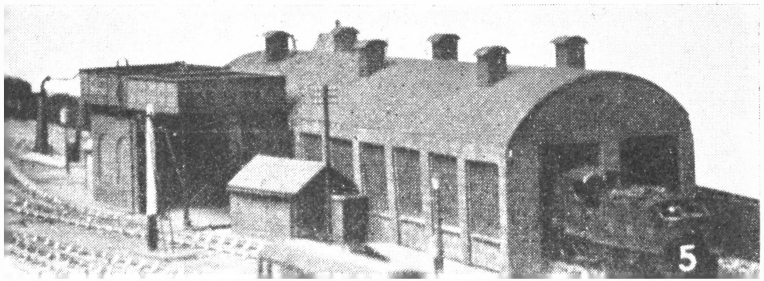
EAST ELEVATION

Signal box at east end of station









LEICESTER

THE Leicester Model Railway Group held their second exhibition at the Boot and Shoe Trades Hall, Leicester, from August 25th to 30th. This band of enthusiasts has now been in existence for about four years and their second exhibition was a fine achievement for so young an organisation.

Apparently, the interests of the Group cover a wide range in the sphere of railways, for the many excellent exhibits displayed on the stands entraced a long period in English railway history, from a Leicester & Swannington Railway locomotive with its wooden-planked boiler, through pre-grouping to " The Big Four " and nationalisation. We are pleased to see that members appreciate the value of modelling historical prototypes, whilst at the same time, the more modern designs are not outlawed as austere, drab things or as new-fangled monstrosities.

Support was given to the exhibition by The Grantham Society of Model Engineers, The Manchester Model Railway Society and The Model Railway Club, who displayed a selection of their members' models on the respective stands.

The showpiece of the exhibition was the working " O " gauge layout. Most of its space was taken up by the terminal station—an almost exact copy of Yarmouth (Beach), M. & G.N. The planning of the layout was carried out mainly by Donald Moore who had complete access to the prototype station during the war, R. Grigg, concentrated on the architectural features, G. A. Lord, was

(1) *A picturesque spot on the " O " gauge layout. The train emerging from the tunnel is hauled by L.M.S. 4-4-0 Class 2P No. 564 owned by S. Presho.*

(2) *This Great Western large cattle wagon in " O " gauge by R. E. Tustin, is noteworthy for its scale whitewash !*

(3) *G. Reffin made a very neat job of his buildings for a country station in 4 mm. scale, part of which is shown here.*

(4) *A refreshing exhibit was this freelance scale 2 ft. 6 in. gauge saloon coach by A. J. Powell. The body design is of a Cavan & Leitrim Railway composite coach whilst the underframe is freelance. The scale is 7 mm.*

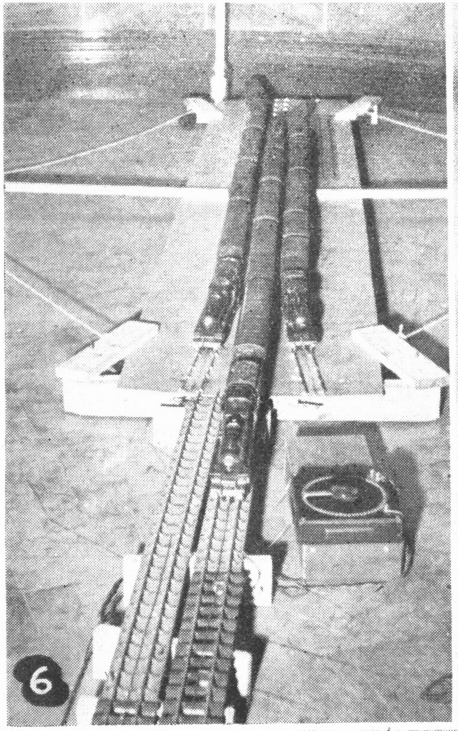
(5) *The locomotive depot at Yarmouth (Beach) on the " O " gauge layout. Note the fine detail on the water towers.*

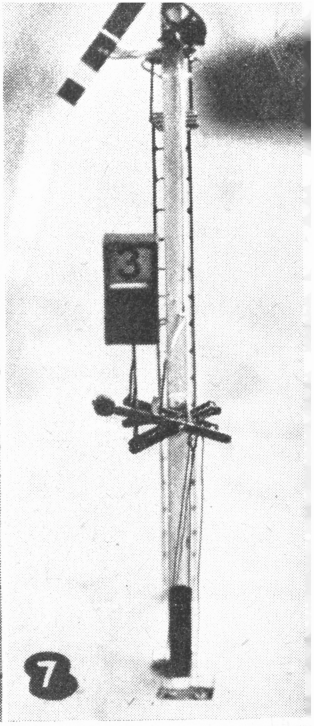
EXHIBITION

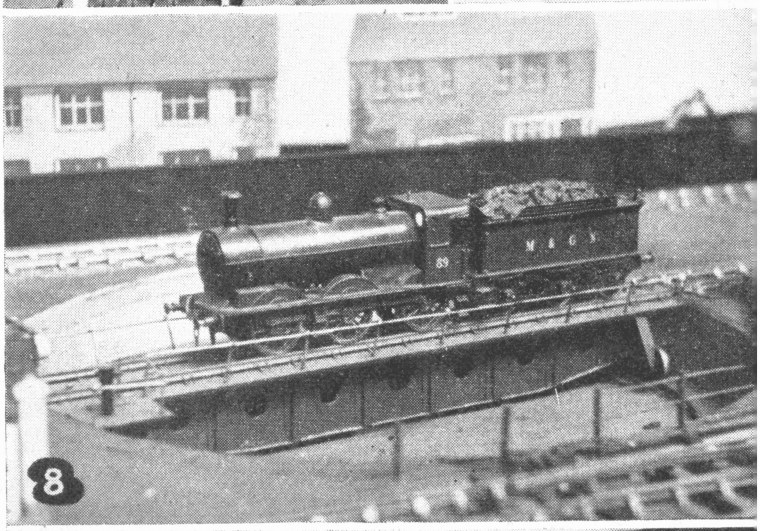
responsible for the major part of the trackwork (standard " O " gauge) and P. A. Johnson, dealt with the electrical work, (signal solenoids, etc., and stud contact electrification). Altogether about 20 members of the Group's " O " gauge section helped to build the layout and the work was spread over 32 evenings, working three hours per evening. Trains leaving the terminus passed the level-crossing, ran over a large river bridge, then traversed a gentle curve and disappeared from sight through a picturesque tunnel mouth. Behind the scenes, trains ran on to a monster turntable by which three whole trains could be turned in one operation. So far as we know, this is the first application of the " train turntable " to an exhibition layout. For a point-to-point layout the method has many advantages. Running round, uncoupling and coupling locomotives is obviated, thus facilitating that frequent service of trains so necessary for an exhibition layout, which should never bore the onlookers by its inactivity.

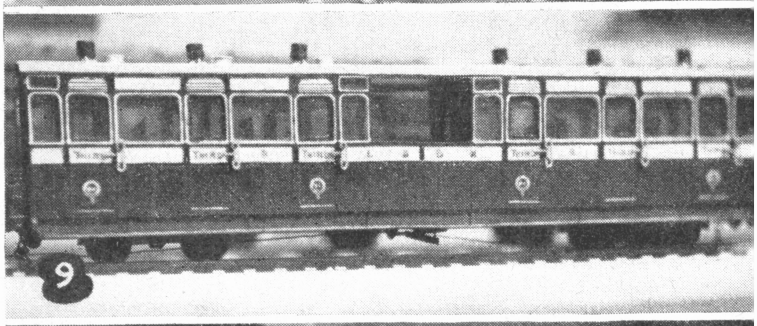
The " OO " gauge layout had a continuous circuit with one main station. The inner circuit, used by Great Western stock, included a small country halt. The two members mainly responsible for this layout were M. Rich and C. Greenwood.

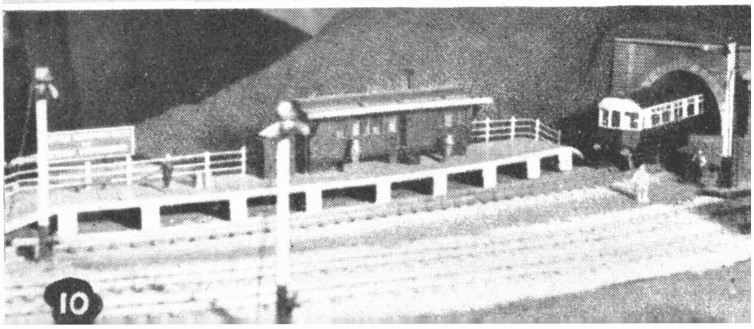
The exhibition was very well attended, at times *too* well attended, according to our photographer, but we had a most interesting time taking the pictures reproduced here, which will show you just what Leicester can do.











(6) *Here is the " train turntable " behind the scenes on the " O " gauge layout. An L.M.S. 4-6-0 is just starting away with its train. On either side two more trains wait to leave when their tracks are brought into line.*

(7) *G.N. " Somersault " signal with working platform road indicators, an ingenious model in 7 mm. scale by R. E. Tustin.*

(8) *An excellent copy of Yarmouth (Beach) turntable on the " O " gauge layout. The locomotive is one of the M. & G.N. 0-6-0s of Great Northern design, owned by George Cooke.*

(9) *Lynton and Barnstaple Railway 3rd class observation coach No. 8. 7 mm. scale on " OO " gauge, built by R. E. Tustin.*

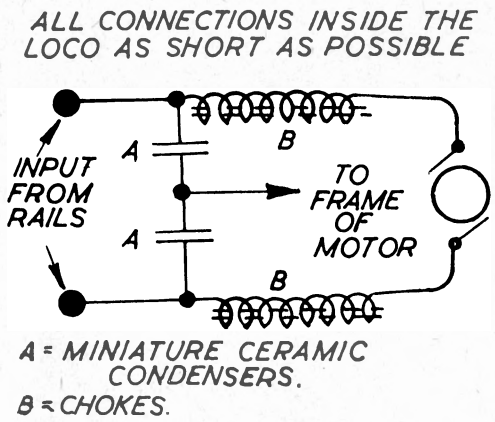
(10) *A view on the " OO " gauge layout. This is a little halt on the Great Western section of the layout and an " Auto-train " is just leaving the tunnel. The double tracks of the Southern section can be seen in the foreground.*

EDITOR'S MAILBAG

Radio Interference

DEAR SIR,—I think I may be able to help Mr. F. A. Redfearn and perhaps others troubled with the same problem referred to in his letter published in the February issue.

So far as interference with ordinary sound broadcasting is concerned, a complete cure should be effected by solidly bonding one of the running rails to earth which then acts as a static shield for the other rail, and as for mains-borne interference, this can be disposed of by using a power unit in which the transformer primary is shielded.



The problem of television interference is quite different and, having this to deal with myself, I consulted Messrs. Belling and Lee, specialists in such matters, who gave me some advice which I have found completely effective. It consists of fitting a small suppressor close to the motor of each locomotive. This suppressor is small, cheap and easily made. It consists of two chokes connected as close as possible to the motor terminals, i.e., brushes on a conventional motor or contactor terminals on a Graham-Farish, and then connecting the free ends of the chokes to the pick-ups on the locomotive or to one pick-up and frame. Between the ends of the chokes remote from the motor and the frame of the motor itself, two condensers are connected to form a bridge.

The chokes (" B ") consist of the small powdered iron tuning cores or slugs obtainable at most radio shops which are normally used inside the somewhat larger coil former, and directly in the threads of these slugs is wound a single layer coil of 28 gauge enamelled copper wire. The resulting choke is about $\frac{3}{4}$ in. long and just over $\frac{1}{4}$ in. diameter. The condensers specified (" A ") are of a very small ceramic type of 680 p.f. capacity of the high dielectric type. I found these difficult to obtain although normally a " preferred " value, and I have used 1,000 p.f. condensers of similar type which work perfectly satisfactorily. The condenser on the Graham-Farish movement which is intended to reduce sparking and wear of contacts is much too large to have any effect on television frequencies.

With these suppressors I find that it is not possible to tell by watching the screen whether the railway is working or not, whereas without them the picture was completely blotted out. This is quite a serious matter in view of proposed legislation on interference with radio and T.V., as I find that a model railway without suppressors can cause serious interference with T.V. sets up to a hundred yards away.

Yours faithfully,

Islip, Oxford. G. W. M. LUSH.

NOTICES

All rights in this issue of THE MODEL RAILWAY NEWS are strictly reserved. No part of the contents may be reproduced in any form without the permission of Percival Marshall & Co. Ltd.

The Editor invites correspondence and original contributions on all aspects of model railways from $\frac{1}{4}$ in. scale to 2 mm. scale, and on suitable prototype subjects which should be addressed to him at 23, Great Queen Street, London W.C.2. Matter intended for publication should be clearly written, and should invariably bear the sender's name and address.

Readers desiring to see the Editor personally can only do so by making an appointment in advance.

All correspondence relating to sales of the paper and books to be addressed to the Sales Manager, Percival Marshall & Co. Ltd., 23, Great Queen Street, London, W.C.2.

Annual subscription 13s. 6d., post free, to all parts of the world.

Correspondence relating to advertisements to be addressed to The Advertisement Manager, THE MODEL RAILWAY NEWS, 23, Great Queen Street, London, W.C.2.

NORTHERN IRELAND ENTHUSIASTS!

"OO" GAUGE SPECIAL OFFER

NEW GP5 GRAHAM FARISH LOCOS, **70s.** each.

TRIX AMERICAN TRAINS

Passenger Set **£11 6 9**

Freight Set **£9 19 6**

American Passenger or Freight Locos, **97s. 6d.** each.

All Accessories.

We stock Graham Farish, Trix, Peco, Wrenn, Exley, Gem, etc.

J. S. SCARLETT & SON

BALLYCASTLE · NORTHERN IRELAND

The *ANNUAL SUBSCRIPTION* to

MODEL RAILWAY NEWS

is 13/6 post free

It is published on the first of each month and is obtainable from local newsagents or from the publishers direct, by subscription.

PERCIVAL MARSHALL & CO. LTD.

23, GREAT QUEEN ST., LONDON, W.C.2

"THE MODEL RAILWAY NEWS"
SALES AND WANTS

Private : **Threepence** *per word. Trade* : **Sixpence** *per word. Use of Box* **1/-** *extra. Minimum charge* **6/-**

The Advertisement Manager reserves the right to refuse or suspend advertisements, without giving any reason. No definite date of insertion can be guaranteed, and although every care is taken to avoid mistakes, we cannot be held liable in any way for printing errors or omissions. Recept by the publishers of advertisers' "copy" for publication implies acceptance of these conditions by the advertiser.

The utmost care is taken to exclude announcements from doubtful sources, but we cannot accept responsibility or guarantee the good faith of advertisers.

The Sports Depot (M/C) Ltd. for bargains. Gauge "O" Clkw. Hornby 0-4-0 Tank, 27s. 6d.; 0-4-0 and tender, 30s.; new, 45s. 3d.; Bassett-Lowke "Royal Scot," £10; "Duchess of Montrose," 4-6-2, as new, £20 (value £27); 4-4-2, £3 10s.; 4-4-0, £4 10s.; 4-6-0 "City of London," £5; all 12 V, d.c. Gauge "OO" Hornby; "Duchess," £3 3s.; "Sir Nigel," £3. Tank loco, 47s. 6d.; Gaiety 0-6-0, 50s.; Trix. "Princess" presentation set, £8 10s.; 4-4-0 and tender, £4 10s.; all locos. guaranteed. Rails. Clockwork, gauge "O," 4d. and 6d. each tinplate; Electric 9d. each. Hornby "OO" 2s. 6d. each, etc. Trix 1s. 6d. and 1s. 9d. each. Trucks, Gauge "O" from 2s. to 7s. 9d., etc. B.L. from 5s. 6d. each. All sports requisites. Golf clubs, etc. Toys. Your visit welcome.—4/10, PRINCESS ROAD, Moss Side, Manchester. Tel.: MOS. 1757.

R. G. Dettmar & Co. regret that owing to the number of orders now on hand they are unable to accept chassiswork, repainting and new locomotive construction for two months, meanwhile they are still able to supply Read-Maxwell 5-pole motor units, cast-iron wheels, etc., and will be pleased to send leaflets on receipt of a large stamped envelope. "O" Gauge only.—R. G. DETTMAR & Co., Ashtead, Surrey.

Staffordshire's Model Shop since 1936. Model railwaymen always welcome. New "OO" layout.—J. W. BAGNALL, South Walls Road, Stafford. Tel. 420. M.E.T.A.

Transformers for "direct" or "split potential." Rectifiers, auto cut-outs, ammeters, volt meters, reversing controllers power units, large stocks. List, s.a.e.—HARRY GILPIN, 76, High Street, Walton-on-Naze, Essex.

Handyman's Shop, 27, Blakey Moor, Blackburn. Agents for Acro, Peco, ERG, Walkers, Wrenns, Hamblings, etc. Hardboard strips (all sizes for tracklaying).

"OO" Scale Locomotives at attractive prices. Hand built. Detailed 2- and 3-rail. Good selection all regions. Stamp details.—Box No. 6450, MODEL RAILWAY NEWS Offices.

Yeovil, Railway Modellers are invited to call. Agents for Trix, Peco, Rovex, Graham Farish.—"HINKS FOR RADIO," 36, Middle Street, Yeovil.

Pre-Grouping Coaches. 4 mm. card parts. Embossed panelling. Thirds-Clerestory. Midland 46′ 7½″, 4s. 3d.; G.W.R., 46′ 6″, 4s.; N.E.R., 45′, 3s. 9d.; Six-wheel L.S.W.R. G.N. of Scotland, 2s. 6d.; N.E.R. 32′ brake van, 3s. 6d. Post 3d.—HANSON, 57, Sutherland Avenue, Fenham, Newcastle-on-Tyne, 4.

America's Most Authoritative Magazine "Model Railroader" one year post free, 39s. Back numbers 3s. 6d. each. Free booklet of other American magazines from—WILLEN LTD. (Dept. 42), 101, Fleet Street, London, E.C.4.

Rustless Alloy Rail. Flat bottom. Gauge "O"-10¼″. Small sizes *ex*-stock. Limited supplies of large sizes in August.—FENLOW PRODUCTS LTD., Weybridge, Surrey.

Juneero Tools, wheels, tyres, gears, materials, useful model makers; stamp appreciated.—IVEY, 7, Cornwall Terrace, Penzance.

Trix 2-4-2 tank locomotive, Dublo remote points, point motors, many Trix and Dublo items. S.A.E. list.—Box No. 6540, MODEL RAILWAY NEWS Offices.

For Sale. 16.5 mm. gauge. Four locomotives. Wrenn turnouts and crossovers, track, rolling stock, kits, controllers, transformer, rectifier, etc. All brand new, never used. Write for list.—A. GROSART, "Low Wood," Firs Estate, Kenilworth Road, Coventry.

Rovex Owners. Why not have your set converted to operate on Graham Farish and Peco type track? S.A.E. for details and estimate.—Box No. 6539, MODEL RAILWAY NEWS Offices.

£8 10s. Trix Train Set, including double transformer, rails, cost £12 8s. 3d. in June, also Hornby-Dublo set with transformer, £8, both nearly new.—Box No. 6541, MODEL RAILWAY NEWS Offices.

American H.O., 16.5 mm. gauge. Box cars, reefers, flats, cabooses, passenger cars, all sprung trucks, super detail, 2-rail. N.Y.C. 4-8-2 locomotive, freight car kits. Quantity spares. S.A.E. for list.—Box No. 6545, MODEL RAILWAY NEWS Offices.

Gauge "O" Exley 4-6-2T (G.C.), 12 V, £12; clockwork 4-6-2 (A3), £15; 2-6-0 (K3), £10 and others. Coaches, wagons, track, etc., hand-made, good quality; C/W motors; Gauge "OO" (Hornby) clockwork 0-6-2T (two), £2 each, track. M.R.N., M.R.C., Railway Magazines and other books. S.A.E. list.—WILKINSON, 15, Moorlands Ave., Oakworth, Keighley.

Reduced Prices! Modeller offers surplus components; "OO" gauge large range. Everything brand new. S.A.E. for list.—Box No. 6547, MODEL RAILWAY NEWS Offices.

"OO" Gauge. Hand-built super detailed coaches, interiors fully fitted. Three L.N.E.R. post-war teak, £3 10s. Three main line B.R. red and cream £3. One S.R. restaurant brake, 15s. Hornby Gresley and tender, £3. G.F. transformer-controller, £2 15s. Seven assorted trucks £1. All as new.—8, Netherpark Drive, off Eastern Ave., Gidea Park, Essex.

Sale. Complete or separate items. Large T.T.R. "OO" gauge layout with all necessaries. List and prices on application.—G. W. SPENCE, Field House, Elstree, Herts.

Complete 3-Rail "OO" Layout, 8′ × 4′ baseboard, wired seven sections, two built-in controllers, six points, crossover, Duchess, Prairie, Gaiety locomotives, fourteen goods wagons, signals, stations, locomotive shed, water towers, buffers, £22.—BRIGGS, 104, Merryhills Drive, Enfield. Telephone 1546.

Gauge "O" Hornby and other makes locomotives, coaches and accessories, £60, or sold separately. Meccano, good condition including motors, £30.—SANDERS A., 34, Haymerle Road, London, S.E.15.

Exceptional Bargain. "O" gauge, all brand new and unused: Bassett-Lowke compound, Exley corridor brake 3rd., Exley corridor coach, Exley diner, all in L.M.S. red, 72 yds. brass rail with chairs to make 24 yards electrical 3-rail track, £30 worth for £17 10s.—Box No. 6553, MODEL RAILWAY NEWS Offices.

B/L Scotsman, electric, perfect, L.M.S. steam Mogul, offers.—SMITH, 24, Southleigh Crescent, Leeds 11.

12 Photos of Danish Locomotives as post-cards 3½″ × 5½″ with technical dates. Send 3s. 6d. (in stamps) to—BENT PALSDORF, Kongevejen 128, Kgs. Lyngby, Denmark.

For Sale. Quantity M.R.N., M.R.C., Model Railroader, etc. S.A.E. please.—C. S. REID, 17, Towers Avenue, Newcastle-on-Tyne 2.

House for Sale with garden backing on to open stretch of Victoria/Ramsgate line affording excellent opportunity for observing all types of trains. London 20 miles. Ideal for occupation by railway enthusiast. Full details on application.—Box No. 6554, MODEL RAILWAY NEWS Office.

90′ "O" 3-rail brass track, crossover points, £6 10s. lot. Large station, 25s.—18, Brockhurst Road, Gosport, Hants.

"O" Gauge locomotive body and tender kits 5P5F 31s. per ft. Enquiries S.A.E.—DAWSON, Briars Yard, Lathom Ormskirk.

Gauge "O" Brand new L.M.C. 4-coupled mech. fitted flywheel, 50s. Brass track. Detailed L. & Y. 2-4-2T. R. Maxwell mech. Cattle van (Walker's), P.O. wagon. Stamp details. Also complete Dublo lay-out.—STIRLING, Knottingley, Yorkshire.

Bassett-Lowke "O" gauge, electric railway, 13 wagons, 125 ft. of track; 0-6-2T L.M.C.; excellent condition, £55 or offer.—HUTTON, 4, Terminus, Mansions Eastbourne.

"Gauge "O" beautiful model G.W.R. King, £17. Leeds 2-6-0 Mogul, £10. 5100 class 2-6-2T, £10. Bassett G.W.R. L.N.E.R. Moguls, £7 10s. each. G.W.R. 0-6-0T, £5, all 12 volts. G.W.R. "Castle," "Hall,' £7 10s. each. 45 class 2-6-2T £6 10s., 0-6-0 saddle tank £5. L.M.S. "Duchess of Montrose," £12 10. All clockwork. Gauge "1" clockwork "George V," £5. Also H.P. steam tank, £10.—Box No. 6559, MODEL RAILWAY NEWS Offices.

For Sale. Graham Farish layout, 8′ 2″ × 5′ 6″ two-rail, fully wired on wooden baseboard. Includes 50′ track, G.P.5 locomotive and tender, Prairie Tank locomotive, 6 wagons and vans, 2 Pullman coaches, controller, 2 stations, points, goods depot, etc. In good working order, church and farm layouts for £25. Seen or 'phone after 8 p.m. LIBerty 3198.—MR. CLARK, 3, Dorset Road, Merton Park, S.W.19.

For Sale. Gauge "OO" 3-rail electric railroad complete. G.W.R. four locomotives, five Exley coaches, one auto train, seven other coaches, 37 assorted wagons, Evans nickel silver track, lineside effects, stations, two turntables, controllers, plan and further details from—Highland House, Worksop Notts. S.A.E. please.

"O" Bowman Steam 0-4-0, twin bogie wagon, 8 × 1 yd. rails, £6 10s.—SCANDRETT, 1, Fernside Road, Balham, London.

Gauge "O" electric 12 V, d.c., G.W.R. model railway for disposal. S.A.E. list.—FRAMPTON, 45, Lawn Road, Exmouth.

Sale. Bassett-Lowke steam, Gauge "O" Mogul, new condition, brass circle track, two coaches; £15 the lot. — Box No. 6560. MODEL RAILWAY NEWS Offices.

Two Walker-Fenn Clockwork Tanks, just reconditioned by makers. The famous original types. £9 10s. each. Gauge "O."—Box No. 6561, MODEL RAILWAY NEWS Offices.

Nickel Silver Turnouts, "OO" scale. Two-rail. Bullhead. Radius 3½′. Sleeper spacing 10 mm. Length 11⅛″. 10s. 6d. each. In steel rail, coarse scale, 8s. Post free.—A. RENFREW, West Linnburn, Shandon, Dumbartonshire.

Gauge "O" Hornby 20 V layout, 4-4-0 locomotive, rolling stock, etc. S.A.E.—MACNIVEN, Schoolhouse, Friockheim, Angus, Scotland.

Farish G.P.5 and sixteen wagons, vans, fitted sprung couplings, 6 mm. buffers work without buffer locking. £6 10s., or enquire 4, Manson Place, Saint Dennis, Cornwall.

Beautiful 2½″ Gauge North Eastern 4-4-2 non-working exhibition model. Nearest £5.—136, Marsh Road, Luton.

4 mm., 16.5 Gauge. Scale locomotives, coaches and accessories. Books and tools. S.A.E. for details.—Box No. 6568, Model Railway News Offices.

"New Developments in Railway Modelling." This attractive book has over 300 illustrations and diagrams and is a comprehensive treatise on planning, operation, construction, signalling, and scenic work in the light of new developments. Makes excellent gift for birthday or Christmas. Well packed, posted, 17s.—Bransons Ltd., 119, Granby Street, Leicester.

"OO" Gauge. Two-rail points, 3' radius, 11s. 6d.; Diamond crossovers, 15s., post extra. All N/S B.H. rail made to M.E.T.A. standards. Peco N/S rail in stock, 6s. for twelve 18" lengths, post extra. —Below.

"OO" Gauge. Our range of hand-made scale locomotives gives remarkable value. 4-4-0's, £5; 0-6-0's, £5 5s.; 0-4-0 saddle tank, £3 10s. S.A.E lists and drawings.—Everbodies Hobbies, 13, St. Nicholas Street, Ipswich.

"OO" L.M.S. 4F 12 V. Bound volumes "Model Railway News," "Model Railway Constructor." Beal's books. Stamp list.—15, Hills Avenue, Cambridge.

Luken's-o'-B'ham, Gauge "O"-"1" live steam specialists. Blueprints, castings, materials, finished parts. 6d. stamp for list. Dept. RN., 10, Coldbath Road, Birmingham, 14.

The "E.W." Convertible 2½" × 8" lathe. Fully convertible from plain lathe to hand traverse, brack-gear and screwcutting. Price from £13 4s. Ideal for beginner or expert. Immediate delivery—credit terms. Send 2½d. stamp for fully illustrated leaflet. —Wanstead Tool Supplies, 48, High Street, London, E.11.

Model Railway Layout and extensive collection of "OO" equipment. Stamped addressed envelope, please, for details and list.—James, 55, Colebrook Road, High Brooms, Tunbridge Wells, Kent.

Rotary Converters. For operating model railways from d.c. mains. These are converted *ex*-Government units, giving approximately 12-15 V at 3 A d.c. from 230 V d.c. Fitted in steel cabinet with main switch and lead and radio noise suppressor gear. Price 25s. each. Postage, 2s. 6d.; Metal rectifiers, 12 V, 1 A, 8s. 6d.; 3 A, 14s.; 4 A, 21s. Postage, 1s.; 6 V relays, with two heavy duty break contacts. Price 2s. Post 9d.; Transformers, 230 V, a.c. input, output 15 V at 2½ A, 10s. 6d. Post 1s. 6d.; Selector switch boxes. Containing 16 toggle switches, terminal strips, etc. Price 12s. 6d. Post 1s. 6d. Send for our Government surplus list, price 6d., post free, which contains over three hundred useful items for the experimenter.—A. T. Sallis, 93, North Road, Brighton.

Dublo "Duchess" Locomotive, five coaches, as new, and turntable, £8 10s.—Liddle, 15, Quarry Street, Coatbridge.

Trix Twin new including track points, rolling stock and two 0-4-0 engines; 25 per cent. of list.—Box No. 6571, Model Railway News Offices.

Marklin. New and unused 100 rails, electric points, eight coaches, 4-6-2 engine, half price; also used 4-6-2 and 0-4-0 electric and old type track and points.—Box No. 6570, Model Railway News Offices.

"OO" Gauge. Stud and two-rail, locomotives, stock, track, spares. Large quantity railway and model magazines; cheap. S.A.E.—Featherstone, Happisburgh Road, North Walsham, Norfolk.

Several "O" Gauge 12 V, d.c. Bassett-Lowke and Leeds locomotives and mechanisms. D.C. mains converter. All good condition and reasonable. Stamp list.—Farrants, 26, Glen Drive, Bristol, 9.

Hornby Gauge "O" track, 2' curves, buffers, points, 70' clockwork, £6 10s.; Controlled clockwork tank 4-4-4, £4 10s.; Four Exley coaches, G.W.R. corridor, £8; Sundry Hornby Goods stock. All items new 1952.—Rutherford, Highclere, Newbury.

For Sale. Hornby Gauge "O" electric train set. Trucks, coaches, station, tunnel, track. Nearest £16.—Walters, Brenig View, Tregaron, Cards.

For Sale. Two gauge "O" partly-finished Brighton Atlantics; Ditto G.W. 2-6-2T; Ditto Gauge "1" "Terrier. Also sheet brass, tinplate off-cuts, Tufnol. Set fine scale "O" insulated wheels. Few oddments. S.A.E., please.—23, Harnham Road, Salisbury.

SITUATIONS

The engagement of persons answering these advertisements must be made through a Local Office of the Ministry of Labour or a Scheduled Employment Agency if the applicant is a man aged 18-64 *inclusive or a woman aged* 18-59 *inclusive unless he or she, or the employment, is excepted from the provisions of the Notification of Vacancies Order,* 1952.

Young Man. Experienced model maker, also proficient carpenter and electrician, Requires permanent position.—Box No. 6549, Model Railway News Offices.

WANTED

Wanted. Copy of "Model Railway News" for February, 1950.—Morris, 101, Roseville Road, Hayes, Middx.

Urgently Required to complete volume. January issue, 1951, "M.R.N." Must be good condition.—Ward, 70, Sherrick Green Road, Dollis Hill, London, N.W.10.

Wanted. Capable experienced man for children's fair, operating Greater London Area, to drive, maintain, erect and run model 7¼" and 9¼" gauge steam locomotives, juvenile riding machines and vehicles, etc. Permanent job for right man.—Box No. 6566, Model Railway News Offices.

Crossman Air Pistol Wanted, good price paid. Write, stating condition and price.—T. Sutton, 11, Dugdale Street, Birmingham, 18.

CLASSIFIED ADVERTISEMENT

ORDER FORM

PRIVATE RATE **3d.** A WORD. TRADE RATE **6d.** A WORD

BOX NUMBER **1/-** EXTRA. MINIMUM 12 WORDS

.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....

To The Advertisement Manager, The "MODEL RAILWAY NEWS"
23, Great Queen Street, London, W.C.2. *Please insert the advertisement under the*

heading.....*for*.....*insertions.*

I enclose.....

NAME.....

ADDRESS.....

WE ARE READY
FOR THE LONG EVENINGS,

ARE YOU ?

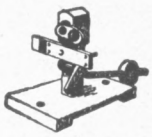
Our catalogue will show you that we carry large stocks to help you.

Send 1/- now.

A. WEBSTER
22, WHITEHALL CRESCENT, DUNDEE

S. & B. PRODUCTIONS
"OO" GROUND SIGNALS

EITHER TYPE
2/9
Incl. tax
Post free



Perfect working models, fitted with spring return for remote control.
Type S/1. White disc, red bar. Type S/2. Yellow semaphore.
OBTAINABLE FROM ALL MODEL SHOPS
3, Orton Buildings, Portland Road, S. Norwood, S.E.25
Phone : LIV. 4943

OO **GEM EQUISPRING** OO
THE WORLD'S FINEST COACH BOGIE

Unique combined equalised springing gives these bogies unequalled riding qualities. Plated brass wheels and beautifully finished castings correct to the smallest detail. Complete with bolster ready for fixing to coach floor with a single screw.

L.M.S. — G.W.R. — L.N.E.

Obtainable from your dealer or direct from

2 RAIL 14/8 PER PAIR	**GEORGE E. MELLOR** (Dept. N82) 31a, Rhos Rd., Rhos-on-Sea, N.W. *Send 7½d. for our Catalogue*	3 RAIL 12/10 PER PAIR

KILLICK SCALE MODEL SUPPLIES
"ELKWAY" TRACK UNITS

Hardboard base, complete with ballast and sleepers. For use with bull-head or flat-bottom rail, chaired or soldered. 16.5 mm. or 18 mm. (EM) gauges. From 1/4½ per 18 in. length.

"ELK" TRACK BASES, from 3½d.

Ballast, (new natural colour) 1/3 per bag. List and samples 1/-

PLATFORM GARDENS. Various shapes, many colours. 1/3 each.
Post free

202/4, HIGH STREET, TONBRIDGE, KENT
M.E.T.A. Dealer. *Phone* : TON. 2981

INTRODUCING—

- A new transformer specially designed for model railways. A.C. input, 12 volt d.c. output at 1 amp. Forward and reverse graduated control. Also charges radio and car batteries. All in one compact unit and guaranteed for one year. Retails **53s. 4d.**, plus 13s. 4d. purchase tax.
- Trackmaster clockwork locomotives. Special offer at **15s.** each, plus 3s. 4d. purchase tax. New.
- "OO" gauge garage signs reproduced in their original colours. 90 signs on one sheet. Retails 7½d. per sheet.
- "O" gauge garage signs in original colours. 27 assorted on one sheet. Retail 1s. 2d. per sheet.

WHOLESALERS AND RETAILERS ONLY SUPPLIED AT TRADE TERMS.

P. S. FISHER
6, Station Yard, Twickenham, Middlesex.
Phone : POPesgrove 7758

"OO"
electrically remote controlled
SCALE MODEL SIGNALS

You can add enormously to the fascination of operating your layout by the addition of these beautifully made signals. Absolutely reliable, they need no adjustment and the electro-mechanism is out of sight when installed. Ideal for automatic operation by the trains, or from a lever frame having electrical contacts.
Price **17s. 1d.** tax paid. Also manually operated.
Price **9s. 9d.** tax paid.
From all good model shops or direct from the manufacturers.

SMEC

Send s.a.e. for illustrated leaflet

SCALE MODEL EQUIPMENT CO. LTD.
STEYNING · SUSSEX · ENGLAND

Meta

"0" NEW "SKINLEY" BLUEPRINTS "00"

P.226, Ex.-N.E.R. 32 ft. 6 Wheel Pass. Luggage Van, **1/9** ; P.267, L.P.T.B. Compartment Motor Car, "T" Stock, **2/-** ; P.268, L.P.T.B. Compartment Trailer Car, "T" Stock, **2/-** ; 902, L.P.T.B. 4-4-0T Metro Class "A," No. L.45, **2/-**.

Please state "O" or "OO" prints when ordering.

Send 7½d. (stamps) for Catalogue.

Have you tried our "Estuary" wood wagon body parts? These are available for both "O" and "OO" gauges.

JOHN E. SKINLEY, M.J.Inst.E.
132, High Street, Southend-on-Sea, Essex.

TYLDESLEY & HOLBROOK

M.E.T.A.

109, Deansgate, Manchester, 3

Secondhand Locomotives, Gauge "O," 8/12 V. D.C.

G.W.R. "King," Fine Scale, Rocket Motor	£37 10 0
B.R. (Caley) 0-6-0 2F Tank, Fine Scale ditto	£15 0 0
L.M.S. 2-6-4 T. B/Lowke, Coarse Scale	£12 12 0
L.M.S. 0-6-0 Fowler Goods, Coarse Scale	£13 0 0
L.M.S. "Princess" by Beeson, Coarse Scale	£60 0 0

Also number of good C/W Locomotives

Secondhand Hand-made Wagons and Vans by Mills Bros. and T. & H. **7/6, 11/6.**

Large Hand-made Terminal Stations, "O," by Bassett-Lowke.

Exley Coaches, "O," new, **73/4** to **91/8.**
Exley Coaches, "O," Secondhand, from **55/-.**
Exley Vans, "OO," new, 4-wheel, **29/4.**
Exley Vans, "OO," new, 6-wheel, **36/8.**
"OO" or "O." New lists, **6d.** each.

SCALESIG

MODEL SIGNALS & PARTS

WE HAVE JUST INTRODUCED RETURN-ACTION SPRINGS SUITABLE FOR OUR 4 mm. SCALE SIGNALS, AND AVAILABLE FOR BOTH UPPER AND LOWER QUADRANT TYPES AT **6d.** each.

THESE ARE AN OPTIONAL FITTING AND CAN BE PURCHASED WHEN OBTAINING YOUR KIT OF PARTS.

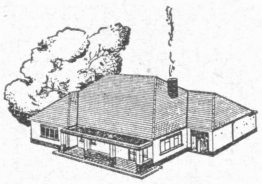
MAIN DISTRIBUTORS :

A. W. HAMBLING & CO.

10, Cecil Court, Charing Cross Road, W.C.2. TEM 4704

TURN YOUR SPARE TIME INTO CASH

Men and Women wanted to make Bennett Model Bungalows at Home. Fascinating, Clean, Remunerative. No Selling involved.



Money back within seven days guarantee
Send stamped addressed envelope for full details.

BENNETT MODELS

3 Lower George St., RICHMOND, Surrey

E. B. LENG

2D, Melville Road, Stonebridge, N.W.10

Bus route 662, 18B service

"OO" and "O" gauge locomotives to order, rebuilds, conversions, reasonable prices.

"O" gauge lever frames with pulleys and cranks : 8 levers, **25s.** ; 10 levers, **32s. 6d.** "OO" lever frame, Hamblings, with contact for electric control. 12 levers, **35s.**

Lowke detailed semiphore signal, single arm, **15s.** Detailed sigual boxes. Large country signal box, **£1 15s.** American wood and card detailed signal boxes, **£1 10s., 17s. 6d., 15s.**

Detailed water tank on girder structure, **£2.**
Mills country station, **£4.**
Packing and post extra.
Deposit and weekly payments. "O" list **4d.** "OO" list **3d.**

GET A GOOD START!

Lawrence's "SPLITUNIC" Split Potential Power Unit is a REVELATION. Input 200-240 volt, a.c., output 12 volt + 12 volt d.c. 2½ amp., can run up to 10 trains "OO" gauge. **£4 15s.** Post paid.

Send s.a.e. for our Bargains List.

LAWRENCE FRANKEL MAIL ORDER

Dept. M.R.N.

134, Cranley Gardens, London, N.10

Phone : TUDor 1404

NOW!

Locomotive body building kits at 9s. Stamped out parts to solder up for 0-4-0.

Dock tank body with all fittings in tinplate, **9s.**, brass **10s. 6d.** Similar job, but Pannier boiler, tinplate **10s.**, brass **12/6.** G.W. 0-6-0 Pannier Tank body, tinplate **12s. 6d.**, brass **14s.** Frames for any of above **4s.** each.

Set of cast parts to assemble 4-6-4 type, **18/11.**

Lists for other lines on request.

MODELS (CITY) LTD.

2, The Arcade, Liverpool Street (Met.) Station, E.C.2.

REPLICA Ltd.

159, Sloane Street, London, S.W.1.

Telephone : SLOane 4914

Have most of the good railways in "O" and "OO" gauge.

HORNBY ★ TRIX ★ ROVEX ★ EVER-READY

As well as LOCOMOTIVES, COACHES, WAGONS, STATIONS, POINTS, etc.

Repairs undertaken ● **Latest books and magazines**

Write, or call at our Showrooms

(1 minute from Sloane Sq. tube station)

JANIDA MODEL RAILWAYS

9, MILL LANE, CARDIFF

ACRO sprung coach bogies, 2-rail, **8/3** ; 3-rail, **7/4.**
Gem turnouts, 2-rail, **7/4** ; 3-rail, **8/3.**
Gaiety Tank locomotives G.W.R. 0-6-0, **£3 6s. 6d.**
,, ,, ,, B.R. 0-6-2, **£3 5s. 6d.**
A few at **59/6**, 2- or 3-rail.
Complete kits as above, **60/-.**
Ratio Coach Kits, **11/11**, L.M.S., G.W.R. and S.R.
We have available a complete range of L.M.C. Products.
Also a full range of B.A. Nuts and Bolts, 0—16.
Back numbers of *Model Engineer*, 1946 to date.

NOW AVAILABLE—
PECOWAY POINTS

for use with Pecoway Type A 2-rail Track. Price **18/4** each, inc. tax.

THE GEM X3 MECHANISM. "OO" Gauge. 2-rail. Sixteen different wheel spacings. 8, 21, 24, 26 and 27 mm. dia. wheels. 4-coupled, **£3/17/0**; 6-coupled, **£4/12/3.**

Send s.a.e for full details.

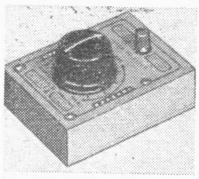
J. R. BAKER (Gillingham) **LTD.**

Dept. M.N.

161, HIGH ST., GILLINGHAM, KENT.

M.E.T.A. Dealer

Control by H. & M.



MODEL C.U.1 VARIABLE RESISTANCE CONTROL UNIT

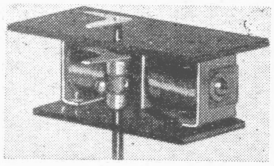
Single knob control and reversing with overload cut-out. For motors taking up to 1½ amps. Suitable for "single supply" and "split potential" circuits.

27/- plus **1/-** carriage.

MODEL S.M.3 SOLENOID MOTOR

Double acting, closed magnetic circuit, low flash current. Powerful action. 12-14 volts d.c. or 14-20 volts a.c. Throw ⅛ in. or 5/32 in. Rustproofed. Size only 2⅜ in. x 1¼ in.

8/- plus **6d.** carriage.



OTHER H. & M. MODELS INCLUDE :—

MODEL TRU/1. Transformer/rectifier Unit, providing 12 volt d.c. at 1½ amps from 200/240 volt a.c. mains. Handles up to three C.U.1 controllers. **62/6** plus **2/-** carriage.

MODEL TRSP. Split Potential transformer/rectifier unit, providing 12-0-12 volts d.c. output at 1½ amps from 200/240 volts a.c. mains. **£5/5/-** plus **2/-** carriage.

Send 2½d. for new Complete Catalogue

Order from your dealer, or in case of difficulty from:—

HAMMANT & MORGAN,

2, Chestnut Avenue, Wembley, Middx.

"LOCO-REVUE"

The Leading French Model Railway Magazine

Published on the 15th of each month

Gives the most interesting Model Railway features

Full of Illustrations and Diagrams

Single Copy - - - - 2s. 6d.

Twelve Months' Subscription - 28s. 6d.

U.K. Subscription Agents:—

PERCIVAL MARSHALL & CO. LTD.

23 GREAT QUEEN STREET

LONDON, W.C.2

A B C invite you when in London for the Exhibition, to call and see for yourself, the following exclusive items, at prices you can afford, and a quality and value that only handling and inspection will reveal.

"OO" POWER UNIT to drive your Rovex, Farish, Hornby or Scale locos., from the a.c. mains. Complete in itself, transformer, rectifier, super speed controller, reverser, and all leads in attractive case.
12 V., 1 amp output, **37/6** (1/6 *Postage*).

POINTS FOR ROVEX either L or R.H., **16/6** each (*postage* 6d.), made from Rovex Rails to join up with the Rails supplied with the set, with either original fitting or new universal ends. State type required.

"OO" MOTOR UNITS 12 V., d.c. all brass and steel construction custom built to order.
3 pole **£1 1s. 0d.** 5 and 7 pole **£1 10s. 0d.**

"OO" LOCO MECHANISMS 4 and 6 coupled custom built to order, all steel and brass construction, 2 or 3 rail. From **£3 10s. 0d.**

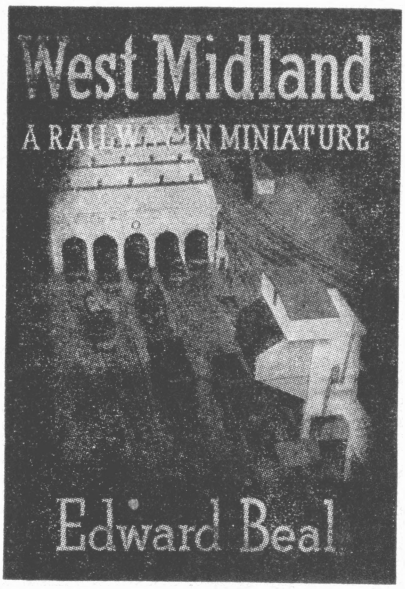
AT LAST THE PERFECT 2-RAIL WAGON AND COACH WHEELS. B.R.M.S.B. STANDARDS THROUGHOUT. Steel axles, metal wheels, anodised finish, fully insulated, disc or 3 hole, **1/6** pkt. (enough 12 mm. wheels on axles for 1 wagon). Above 12 mm. wheels fitted springing unit, **2/-** pkt. 2 rail 14 mm. coach wheels fitted springing unit **2/-** pkt. 2 rail Sprung Coach Bogies, unpainted, **6/9** pair.

IT'S AS EASY AS A B C, CALL, 'PHONE or WRITE

ALLAN BRETT CANNON LTD.

32, Railway Approach, London Bridge, S.E.1. Hop 2289
7, Tenison Way, Waterloo, S.E.1. Wat. 3012
282, Vauxhall Bridge Road, Victoria, S.W.1. Vic. 9875

Look out this Month for . . . . .



WEST MIDLAND (*A Railway in Miniature*)

By Edward Beal **Price 15/-** net.

Text 164 pp. 150 illustrations and drawings

A worthy addition to Railway Modelling in Miniature. For this book is a departure from the usual publication descriptive of the handicraft known as railway modelling in that it is devoted exclusively to the detailed description of an existing layout. The West Midland Lines—to give to this miniature system the name by which it is already known to enthusiasts throughout the world—is here described from all aspects, past, present and future.

We hope that all readers will visit our stand at the "M.E." Exhibition, where copies of this book and all our publications will be displayed.

PERCIVAL MARSHALL & CO LTD

23, Great Queen Street, London, W.C.2

ATTENBOROUGH MODEL RAILWAY

AMR

GAUGE "OO" & ONWARDS

82 ARKWRIGHT STREET

NOTTINGHAM

Tel. : 89648 *Telegrams* : "Attemodels"

Also - 64 Narborough Road, LEICESTER.

Phone : Granby 3214

A.M.R. CHRONICLE, NOW READY, price 1/- post free
The following items are now available (too late to include in above Chronicle).

GAUGE "OO"
Nickel Silver Bull-head type Rails.
In 18 in. lengths—6/1 per dozen. In 36 in. lengths—12/- per dozen.

GAUGE "O"
Brass Bull-head type Rails. In 36 in. lengths—16/6 per dozen.

SLATER'S "HUMINATURES"

(Regd. Trade Mark)
No. 703,609

The choice of the expert modelier. The finest Scale Model Human Figures.
Refuse metal imitations.

All "HUMINATURES" are moulded in Plastic material, and can be modified by simply immersing in hot water for a few minutes, and then bent or twisted as required.

Always ask for "HUMINATURES" at your Model Shop or send 8d. for Price List.

G. N. SLATER

DEPT. M. R. N.

335, STRETFORD ROAD, MANCHESTER, 15

ERIN GO BRACH

To make an Irish prototype available, and at the same time offer a saddle tank locomotive in narrow gauge, we add "Lady Boyd," an 0-6-0 ST of the Ballycastle Railway to our range for the 1952-1953 season.

Price **£10 10s.**

List 6d., post free.

DOUGLASS MODELS

Broad Carr Lane, Holywell Green, HALIFAX, YORKSHIRE

C. J. EMMS LTD.

can now supply full wave bridged rectifiers for your D.C. power unit.

- **6-12 volt, 1 amp** **5/6**
- **6-12 volt, 2 amp** **10/-**
- **6-12 volt, 3 amp** **12/6**
- **6-12 volt, 4 amp** **15/-**
- **6-12 volt, 5 amp** **17/6**
- **6-12 volt, 7 amp** **22/6**
- **24 volt, 1 amp** **11/-**
- **24 volt, 4 amp** **30/-**
- **24 volt, 5 amp** **35/-**

New 85 ohm 6 watt rotary resistance dimmer switches **1/6** each.

26a, COLEHERNE MEWS EARLS COURT, S.W.10

Tel.: Freemantle 8941

WE CORDIALLY INVITE YOU TO VISIT OUR STAND NO. 3

at the " Model Engineer " Exhibition, New Horticultural Hall, Oct. 20-29

NEW ROMFORD FLYWHEEL DRIVE SERIES V MECHANISM, GAUGE "OO"

ROMFORD 7-POLE ARMATURE SERIES IV UNIT, GAUGE " OO "

ROMFORD FLY-WHEEL DRIVE MOTOR BOGIE, GAUGE " OO "

NEW EXLEY ELECTRIC MOTOR COACH SETS FITTED WITH ROMFORD MOTOR BOGIE, GAUGE "OO"

GAUGE " O " WALKER-RIEMSDYK CONTROLLED CLOCKWORK LOCO.

NEW DESIGN " ROMFORD " GAUGE " O " MECHANISM UNIT.

NEW RANGE OF STATIONS, SIGNAL CABINS, OVER BRIDGES, ETC.

DISPLAY OF PRODUCTS BY SLATER, HUMAN FIGURES, ANIMALS, MERCHANDISE, ETC.

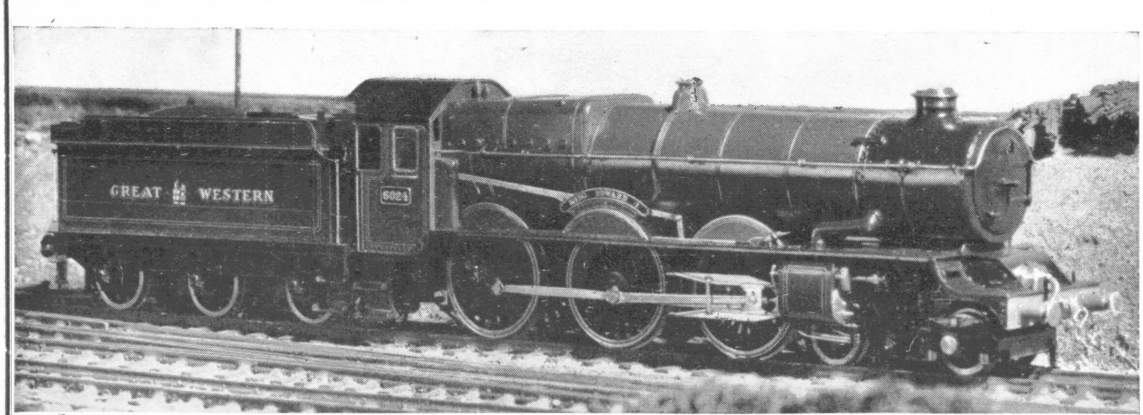
LOCO, WAGON AND COACH FITTINGS OF EVERY DESCRIPTION " O " AND " OO."

FULLY ILLUSTRATED 36 PAGE CATALOGUE, PRICE 6d.

WALKERS & HOLTZAPFFEL LTD., 61, BAKER STREET, LONDON, W.1.

Tel.: WELBECK 8835

LOCOMOTIVES BY EVANS :—



The above is an untouched photograph of a 4 mm. scale G.W.R. " King " class locomotive recently built by us for a U.S.A. customer. Prices for such models are naturally high, but surely it is better to have one really fine model than two or three indifferent and badly finished models?

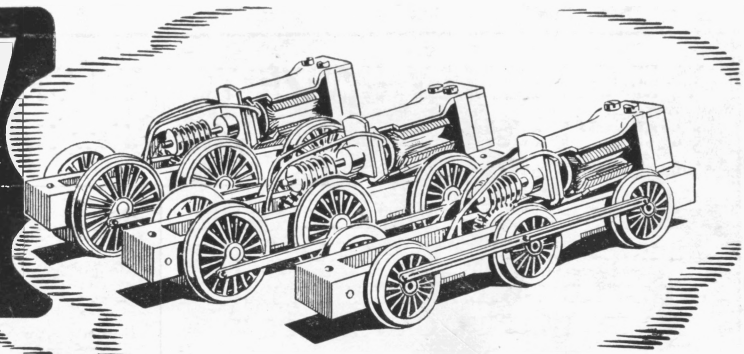
Quotations gladly given for any type in " OO " or " O " Gauges

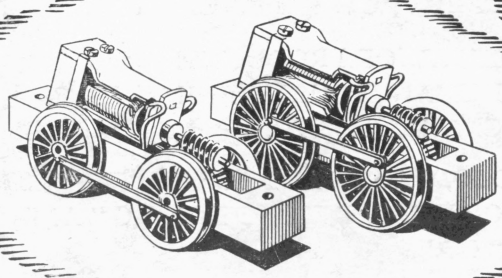
R. M. EVANS & CO.

90-92 PIMLICO ROAD, LONDON, S.W.1

The GEM X3 MECHANISM!

OO GAUGE 2 RAIL





- 16 DIFFERENT WHEEL SPACINGS
- 18, 21, 24, 26 or 27 mm. diam. wheels
- 4 Coupled £3 17 0
- 6 Coupled £4 12 3

WE GUARANTEE these to be Powerful and Controllable at all speeds and Positive Starters in every position of the armature, in either direction.

The GEM Mechanism can be obtained from George E. Mellor and ERG (Bournemouth) Ltd., and from their retail stockists; deal where possible with your local stockist (who has already been provided with an opportunity of obtaining supplies), but if unable to obtain your requirements locally you are of course welcome to order direct from your usual postal supplier.

GEO. E. MELLOR
31a, Rhos Road
RHOS-ON-SEA
NORTH WALES

ERG (Bournemouth) LTD.
529, Roumelia Lane
BOSCOMBE
BOURNEMOUTH

Trade enquiries will be welcomed.

MILBRO MODELS

GAUGE O

Scale Model Track and Points

Straights, 18" long, 9 sleepers	5/6	per length
,, ,, ,, ,,	Elec. 6/8	,,
Curves, 2-10", 3-10", 4-9" rad.	5/6	,,
,, ,, ,, ,,	Elec. 6/8	,,
Double Tracks, Straights and Curves	11/-	,,
,, ,, ,, ,,	Elec. 13/9	,,
Points, R.H. and L.H.		
2-10", 3-10", 4-9" rad.	21/4	each
,, ,, ,, ,,	Elec. 25/8	,,

GAUGE OO

Tinned Steel Rails, 36" lengths	6/5 per doz. yd.
Die Cast Bogie Side Frames	1/3 per pair
Flexible Corridor Connections	11d. each
Axleboxes, Wagon and Coach Type	4/7 per doz.
Coach Ends, G.W.R. Bow Type	1/3 per pair
Coach Ends, Southern Type	1/3 per pair
Point Levers	1/10 each
Locomotive Driving Wheels for 2- or 3-rail ...	4/11 per pair
,, ,, ,, ,, Axles ...	8d. per pair

All Prices include Purchase Tax

Send for our 36-page Catalogue, price 1/-. It gives details of other Gauge O and Gauge OO parts

MILLS BROTHERS (SHEFFIELD) LTD.
129, St. Mary's Road, Sheffield, 2
Telephone : 25742

"OO" GAUGE HAMBLINGS

THE "OO" SPECIALISTS

See our full range of

"BILTEEZI" LINESIDE CARDS

at "M.E." Exhibition, Oct. 20th-29th.

Series "A," 6 cards	...	9/3 tax paid
Series "B," 3 cards	...	5/6 ,, ,,
Series B4, 1 card	...	1/10 ,, ,,
Series "C," 3 cards	...	6/6 ,, ,,
Series "D," 3 cards	...	6/6 ,, ,,

Also our range of Coaches, Accessories.

LITHOS, CASTINGS, ETC., EVERYTHING FOR "OO" GAUGE

78-page New Edition of our Catalogue, price 1/-, on sale at Show.

THE ORIGINAL HOME OF "00" GAUGE

HAMBLINGS TEM 4704 — 10, CECIL COURT, CHARING CROSS RD. W.C.2.

Printed in Great Britain for the Proprietors by ELECTRICAL PRESS LTD., Cordwallis Works, Maidenhead, Berks, and published by PERCIVAL MARSHALL & CO. LTD., 23, Great Queen Street, London, W.C.2.
Registered for transmission by Magazine Post to Canada including Newfoundland.